CONSTRUCTION
LIQUID & POWDER

OVER 90 YEARS OF EXPERIENCE AND QUALITY PRODUCTS

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<td><strong>Silicosis in Construction</strong></td>
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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.  
**Warning:** Chronic health effect possible—inhalaion of silica dust may cause lung injury/disease (Silicosis).  
Take appropriate measures to avoid breathing dust. See page 172-173 for more information.

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**Notes:**

- Oregon (800) 537-3407
- Washington (800) 537-6216
- Questions? Call for Customer Service:
- Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville
Masons Supply Company offers the largest inventory of concrete and masonry accessories in the Northwest. With the addition of concrete forming systems, for sale and rent, Masons is your source for all your concrete needs.

Masons has two major distribution facilities located in Portland, Oregon and Woodinville, Washington. Thirteen warehouse outlets and a large multi function concrete forming, shoring and custom fabrication facility in Ridgefield, WA.

Masons forming and shoring facilities offer and stock the best selection of different concrete forming and shoring systems in the western United States. Modular hand set panels, all steel faced panels, Euro clamp, all steel round and radius forms, aluminum beam, plywood faced gang forms for straight and radius walls. All steel or aluminum tube frame shoring systems. Hand set plywood forming systems are also available. Masons has forming systems for all heavy and light requirements.

Our forming department can also manufacture custom fabricated forms and accessories to fit any job or requirements. A full service distribution center makes it possible to pre-assemble forming systems for delivery anywhere in North America, Canada, Alaska, Mexico and the Pacific Rim.

In the 2000’s Masons has become the premier specialty company for concrete and masonry products in the Northwest. Our only business is servicing professional contractors on all commercial, industrial and infrastructure projects.

Masons Supply Company, a locally owned and operated business, is growing with the Northwest to better serve our customers. We’re proud of our history and our reputation for excellence.
**DETAIL AND DRAFTING**

Having top quality products is only part of Masons’ story. We have the service and expertise to help you get your job done on time and budget. Masons’ factory trained specialists work with your project personnel every step of the way.

When you need building materials and forming systems, Masons can help you select the best products for your requirements and offer on-site technical assistance, as well as specialized equipment.

Our experienced drafting and sales staff, complete with multiple autocad stations are available to prepare clear and accurate computer generated sales, lay-out and detail drawings to fit your projects requirements.

Before you turn the first shovelful of dirt, Masons can be on site, unloading geotextile fabric and safety fence. Our forming department can put the final drawing together on your concrete forming layouts. Masons delivers only the best nationally recognized products and we get it to you on time.

Masons has made the investment in distribution facilities, inventory and trucks to ensure you get what you need when you need it. Masons is committed to supplying professional contractors with the best service and products available.
Masons has the largest inventory of masonry specialties, concrete forms, and accessories in the Northwest. With over 90 years of experience, Masons knows what works and offers only the best products available in the United States. We have everything you need to complete your project. Masons’ comprehensive inventory includes:

**CONCRETE CHEMICALS AND POWDERS**
- Concrete Admixtures
- Curing and Sealing Compounds
- Epoxy Adhesives and Coatings
- Grouts and Hardeners
- Patching Material
- Sealant and Waterproofing
- Surface Retarders

**MASONRY SPECIALISTS**
- Cement and Mortars
- Color and Admixtures
- Flashing and Waterproofing
- Seismic Anchors - Chemical and Mechanical
- Wall Ties and Reinforcing

**CONCRETE FORMING SYSTEMS AND ACCESSORIES**
- Column and Form Treatments
- Form Releases
- Forming Systems
- Inserts
- Plastic Accessories
- Slab and Horizontal
- Tieing and Handset
- Tilt-Up

**SUB GRADE PRODUCTS**
- Drainage Boards
- Geotextile Fabric and Silt Fence
- Safety Fence
- Sheet Membrane
- Vapor Barrier

**TOOLS**
- Concrete Placing and Finishing
- Masonry Placing and Finishing
- Power Trowels, Screeds, Mixers and Saws
- Safety Supplies

**RENTAL AND SALES OF:**
- Adjustable Radius Walers
- Aluminum Beams
- Column Forms
- Crane Set Forms
- Euro Clamp Wall Forms
- Euro Drop Head Deck Forms
- Handset Forms
- Overhang Brackets
- Safety Rail Post
- She Bolts and Taper Ties
- Shoring
- Soldier Beam
- Snap Ties and Accessories
- Steel Column Forms
- Steel Forms
- Steel Ply
- Ties
- Tilt-Up Braces and Accessories
- Walers

**NEW CONSTRUCTION PROJECTS**
Masons has the product and supplies to meet your total concrete and masonry requirements for every stage of your project. Masons carries a full line of products such as chemicals, admixtures, waterproofing and tools.

We offer forming products such as modular wood faced forming, standard steel forming, aluminum beam gang, heavy duty forming, bridge deck forming, precast curb and gutter forms, and architectural form liners. We can supply all your vertical and horizontal forming requirements.

**RENOVATION PROJECTS**
Over 90 years of experience working with manufacturers and supplying construction materials has given us the knowledge to work with architects, engineers and contractors. We can provide the materials to restore buildings and structures to their original appearance and structure integrity.

**INDUSTRIAL PROJECTS**
With Masons’ experience, knowledge and large inventory of dependable products and supplies, we can meet your immediate requirements for emergencies, shut-downs and additions.

Our expert personnel can work with your engineering, construction and maintenance departments and get you into production. Our specialists are experts in emergency repairs on floors, walls, ceilings, and machinery bases.

**CIVIL PROJECTS**
Masons can support you on your road, bridge, dam, water-treatment, reservoir, and other concrete structural projects. Whether new construction or repair, Masons has the products you need, delivered when you need them. Our expertise is backed by over 90 years of serving the Northwest.

Whether you are in the planning, building or construction phase, keep you job on schedule with innovative ideas and proven products at competitive prices.
## CHEMICAL COMPATIBILITY

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1 = Compatible in standard application  
2 = Compatible after oxidation/dissipation  
3 = Non compatible/not applicable

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**Note:** This chart provides general guidelines for identifying chemical compatibility. Unusual applications or project conditions may require further recommendations from Masons Supply. Follow all chemical labeling instructions for maximum product performance and worker safety.
### Admixtures for Concrete and Mortar

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<th>CODE</th>
<th>PRODUCT DESCRIPTION</th>
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<td>A155</td>
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<td>GAL</td>
<td>LIQ</td>
<td>ASTM C-494- C</td>
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<td>REDUCED VAPOR TRANSMISSION</td>
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<td>A156</td>
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<td>GAL</td>
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<td>1-2 Q</td>
<td>REDUCED VAPOR TRANSMISSION</td>
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<td>FR 9044</td>
<td>NON-CHLORIDE SET ACCELERATOR</td>
<td>CFT</td>
<td>POW</td>
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<td>ACCELERATES INITIAL &amp; FINAL SET FORM EARLY STRENGTH IN COLD WEATHER</td>
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<tr>
<td>SU 5280</td>
<td>ACCELGUARD</td>
<td>GAL</td>
<td>LIQ</td>
<td>ASTM C-494- C</td>
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### Air Entraining

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<td>FZ 55660</td>
<td>AIR PLUS</td>
<td>CFT</td>
<td>POW</td>
<td>ASTM C-260</td>
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<tr>
<td>FZ 55664</td>
<td>SUPER AIR PLUS</td>
<td>CFT</td>
<td>POW</td>
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<td>3-10 OZ</td>
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<td>SU 5562</td>
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<td>CFT</td>
<td>POW</td>
<td>ASTM C-260</td>
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### Set Retarder

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<td>MINI DELAY SET RET/WASH WATER STABILIZER</td>
<td>CFT</td>
<td>POW</td>
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<td>FZ 55200</td>
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### Super Plasticizer

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<tr>
<td>EU 5G341</td>
<td>PLASTOL 341 HIGH RANGE WATER REDUCER</td>
<td>GAL</td>
<td>LIQ</td>
<td>ASTM C-494- A</td>
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<td>FZ 55575</td>
<td>SUPERCIZER 1 HIGH RANGE WATER REDUCER</td>
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<td>ASTM C-494- C</td>
<td>1-2 Q</td>
<td>ACCELERATES INITIAL &amp; FINAL SET FORM EARLY STRENGTH IN COLD WEATHER</td>
<td></td>
</tr>
</tbody>
</table>

### Special Use

<table>
<thead>
<tr>
<th>CODE</th>
<th>PRODUCT DESCRIPTION</th>
<th>UNIT</th>
<th>TYPE</th>
<th>SPECIFICATION</th>
<th>DOSAGE</th>
<th>ADVANTAGES</th>
<th>APPR</th>
</tr>
</thead>
<tbody>
<tr>
<td>FZ 55713</td>
<td>SLICK PAK</td>
<td>CFT</td>
<td>POW</td>
<td>ASTM C-937</td>
<td>1 LB</td>
<td>REDUCES EFFLORESCENCE AND SHRINKAGE</td>
<td></td>
</tr>
</tbody>
</table>

### Fibers for Concrete

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>FIBERMESH®</th>
<th>NOVOMESH®</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLABS</td>
<td>150</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>650</td>
<td>850</td>
</tr>
<tr>
<td></td>
<td>950</td>
<td></td>
</tr>
</tbody>
</table>

### Applications

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>FIBERMESH®</th>
<th>NOVOMESH®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential/Light Commercial</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Commercial</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Industrial</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Heavy Industrial</td>
<td>○</td>
<td>●</td>
</tr>
<tr>
<td>Pavements</td>
<td>○</td>
<td>●</td>
</tr>
<tr>
<td>Paving Areas &amp; Roadways</td>
<td>○</td>
<td>●</td>
</tr>
<tr>
<td>Composites</td>
<td>○</td>
<td>●</td>
</tr>
<tr>
<td>Walls</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Shotcrete &amp; Underground</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Precast</td>
<td>○</td>
<td>●</td>
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</table>

**Fibers for Concrete**

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>FIBERMESH®</th>
<th>NOVOMESH®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shotscreet</td>
<td>150</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>650</td>
<td>850</td>
</tr>
<tr>
<td></td>
<td>950</td>
<td></td>
</tr>
</tbody>
</table>

**Applications**

- **Primary Product Application**
- **Secondary Product Application**

**Specifications**

- ASTM C-494 Specifications
- This Chart Should Be Considered a Guide Only
- Consult Specifications Sheets for Complete Technical, Dosage and Applications Procedures

**Fibers for Concrete**

- **Primary Product Application**
- **Secondary Product Application**

**Specifications**

- ASTM C-494 Specifications
- This Chart Should Be Considered a Guide Only
- Consult Specifications Sheets for Complete Technical, Dosage and Applications Procedures
**AEA-92**

**Description:** Formulated for use as an air entraining admixture for concrete of all types. AEA-92 is added independently to the mix (and not with other admixtures).

**Application:** Use whenever air entrained concrete is desired. Ready-mix, precast and block producers can achieve predictable and uniform entrained air contents in concrete, even where harsh lean mixes are used or fly-ash is added to concrete.

**Applicable Standards:** CRD-C-13, ASTM Specification C-260, AASHTO Specification M-154, ANSI/NSF STD61

**Dosage:** 1/2 to 1 oz of AEA-92/100 lb of cement will entrain 3% - 6% air in concrete. Concrete mixes must be tested regularly to confirm that the proper air content is achieved. Consult a representative for proper dosage when using fly ash, slag or high range water reducers.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU SG92</td>
<td>5 gal. pail, 50 lbs., 27/pallet</td>
</tr>
<tr>
<td>EU 55G92</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

---

**Air Plus & Super Air Plus**

**Description:** Air Plus and Super Air Plus are recommended for all types of air entrained concrete where an increase in air content is necessary. Air Plus and Super Air Plus may also be used as primary air-entraining admixtures. Air Plus and Super Air Plus are compatible with all standard concrete admixtures.

**Application:** Air Plus and Super Air Plus are dry powdered admixtures, packaged in ready-to-use water soluble bags.

**Applicable Standards:** ASTM C-260, AASHTO M-154, CRD C-13 Specifications.

**Dosage:** One 8 oz. bag of Air Plus should increase the entrained air content for a full load (8–12 yd³) of concrete by ¼–1%. For larger increases in entrained air content, use one eight ounce bag of Super Air Plus to increase the entrained air content for a full load of concrete by ¾–2%.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Plus</td>
<td>FZ 95660 8 oz. 60/case, 32 lbs.</td>
</tr>
<tr>
<td>Super Air Plus</td>
<td>FZ 95664 8 oz., 60/case, 32 lbs.</td>
</tr>
<tr>
<td></td>
<td>FZ 95667 50 lb. bag, 50/pallet</td>
</tr>
</tbody>
</table>

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Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
CHLORIDE ACCELERATORS

**Anti-Hydro®**
*Description:* A combination of organic and inorganic chemicals that react with Portland cement to produce more complete hydration and reduced water requirements, bleed water, segregation and shrinkage. The increased hydration provides internal curing and a much denser cement paste. These combined reactions produce impermeable concrete that is hard and non-dusting.

*Application:* For high early strength gains. For cold weather concreting.

*Performance Data:*
- Impermeable at 20 psi (46' head of water)
- Reduces vapor transmission by as much as 85%.
- Accelerator reduces setting time 30% at 32°F.
- Reduces shrinkage 20–25%.

*Dosage:*
- For 3,000 psi 4” slump concrete:
  - 40-32°F 1 gal./yd³
  - 32-23°F 1½ gal./yd³
  - 23-20°F 2 gal./yd³
  - 20-15°F 2½ gal./yd³

*No.* | *Size* |
---|---|
AH 1G | 1 gal. pail, 4/case, 48 lbs. |
AH 5G | 5 gal. pail, 60 lbs., 24/pallet |
AH 55G | 55 gal. drum, 660 lbs. |

**Calcium Chloride**
*Description:* Calcium chloride pellets.

*Application:* Cold weather accelerator shortens initial set time. Increase early strength gain.

*Dosage:*
- 1-2 lbs./100 weight cement.

*No.* | *Size* |
---|---|
C CHCL | 50 lb. bag, 50/pallet |

**Mascoset-C**
*Description:* An accelerator for Portland cement. Supplied as a liquid, which contains calcium chloride. May be used with standard or high-early strength Portland cement. Produces fast-setting concrete and mortar for patching, topping, dry-pack mortar and grouting.

*Application:* Initial set of Portland cement can be accelerated. Early strengths are increased.

*Dosage:*
- Dosage rate for 1% is 1 qt./100 lbs. of cement. Dosage rate for 2% is 2 qt./100 lbs. of cement.

*Note:* Due to the many variables encountered in concrete placements, Masons Supply insists that trial mixes be made with the same materials as on the actual project. Field conditions should be simulated as closely as possible to determine the correct proportions of Mascoset-C in order to provide desired setting time and strength development.

*No.* | *Size* |
---|---|
MS 1GSETC | 1 gal. pail, 40 lbs., 4/case |
MS 5GSETC | 5 gal., pail, 50 lbs., 36/pallet |
MS 55GSETC | 55 gal. drum, 550 lbs. |

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. *See page 172-173 for more information.*
NON-CHLORIDE ACCELERATOR

Accelguard 80
Description: A calcium chloride free, accelerating water reducing admixture for use in concrete and mortar. It is compatible with air-entraining admixtures and conventional water reducing admixtures. Chloride free and accelerates initial and final set. May be used to improve set times for all concrete applications. Accelerated setting time of concrete depending on temperature. Early form removal and quicker opening of patched pavement to traffic. Increased durability and wear resistance. Increased early and ultimate strength of concrete and mortar. Improved workability and decreased bleeding and segregation.

Application: For use in cold weather concreting, structural & plain concrete, concrete block and mortar and precast and post tensioned concrete.

Applicable Standards:
ASTM C-494 Types C & E.
AASHTO M-194, ANSI/NSF STD 61 registered.

Dosage: Used at the rate of 12–24 oz./100 lbs. cement. As the quantity is increased, the acceleration of setting time and strengths are increased.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU 5G80</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>EU 55G80</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

Non-Chloride Set Accelerator
Description: A dry, white, powdered set accelerator. Speeds up set times while increasing early compressive strength. Contains calcium, but no chlorides. Chlorides, such as the commonly used Calcium Chloride, promote corrosion in steel, promote efflorescence, and disturb color dispersion in colored concrete, mortar and plaster.

Application: For use in pre-packaged mortar or concrete.

Applicable Standards:
ASTM C-494 Types C and E. (Certification pending)

Dosage: 1 bag of Set Accelerator (5.6 oz.) for each sack of concrete or mortar (usually 60–80 lbs.). This equals about 1% calcium. Up to 3 bags per sack (about 3% calcium) may be used for faster acceleration. You will usually get about 1–3 hrs. reduction in set time depending on temperature.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FZ 98454</td>
<td>5.6 oz. bag, 24/case, 10 lbs.</td>
</tr>
<tr>
<td>FZ 98450</td>
<td>5 lb. bag, 8/case, 42 lbs.</td>
</tr>
</tbody>
</table>

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
GROUT FLUIDIFIER/PUMPING AIDS

**Intrusion Aid “R”**

**Description:** A fluidifier for grouts and concrete that promotes flowability, reduces water requirements, reduces bleeding and segregation, increases strength and eliminates setting shrinkage.

**Application:** The excellent fluidity and flowability make it ideal for pumping grout into block walls, under slabs and foundations, filling cracks and crevices in dams and piers, shoring up deteriorated beams and columns, and pumping augered cast-in-place piles.

**Applicable Standards:**

ASTM C-937 & CRD C-619.

**Dosage:** 1 lb. approximately is recommended for each 100 lbs. of cementitious material to provide proper expansion and fluidifying characteristics. Should be added in powdered form to the grout mix at the job site.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB INTRUS</td>
<td>2¾ lb. bag, 24/case, 65 lbs.</td>
</tr>
</tbody>
</table>

**Slick-Pak**

**Description:** A dry powdered pump primer and pumping aid packaged in a patented, ready-to-use, water soluble bag. Slick-Pak is uniquely formulated for the concrete pumper.

**Application:** Is a lubricant agent for pipe and hose. In addition, Slick-Pak is compatible with all conventional concrete materials and can be used as any standard concrete pumping aid.

**Dosage:** Use the following directions to prime one hundred feet of five inch pump line: Add an 8 oz. Slick-Pak bag to a five-gallon bucket of water. Note: When the concrete contains superplasticizers, we recommend doubling the amount of water used to prepare the Slick-Pak solution for pump priming.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slick Pak</td>
<td>8 oz. bag, 60/case, 32 lbs.</td>
</tr>
</tbody>
</table>

**Slick-Pak II**

**Description:** A dry powdered concrete pumping aid packaged in a patented, ready-to-use, water soluble bag. Slick-Pak II is uniquely formulated to provide the concrete pumper with a cost effective method for improving the pumpability of hard to pump and/ or harsh concrete and grout mixes. Additionally, it reduces line pressure, improves flow properties and increases the rate and range of pumpability. In addition, Slick-Pak II contains no bentonite, cementitious materials, soaps, or air entraining agents.

**Application:** Improves pumpability of hard to pump mixes. It also decreases hose pressure.

**As a Concrete Pump Primer:**

Use one water soluble inner bag in 5 gallons of water to prime 100 ft of 5-inch pump line. Double the water if the concrete contains superplasticizers.

**Dosage:** Approximately 1.5 to 2.5 ounces per cubic yard of concrete or grout. Typically, one 8 oz. bag will treat 4-5 cubic yards.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slick Pak II</td>
<td>8 oz. bag, 60/case, 32 lbs.</td>
</tr>
</tbody>
</table>

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.

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**MASONS SUPPLY COMPANY**

Oregon (800) 537-3407 • Washington (800) 537-6216

Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville
### Mini Delayed Set

**Description:** Designed to stabilize residual wash water or extend setting time of concrete. Does not contain calcium chloride or other potentially corrosive materials and compatible with all standard concrete admixtures.

**Application:** Is a dry powdered admixture, packaged in a ready-to-use, water soluble bag. Designed for stabilizing residual concrete, or extending the setting time of concrete.

**Applicable Standards:**
- ASTM C-494 Type D
- AASHTO M-194
- CRD C-87

**Dosage:**
- **Wash Water Stabilization:** 8 oz./50 gal. wash water for 16 hrs.
- **Set Delay:** Use 3-5 oz./100 lbs. of cementitious material for every 3 hrs of set delay required.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FZ 95050</td>
<td>8 oz. bag, 60/case, 32 lbs.</td>
</tr>
</tbody>
</table>

### Standard Delayed Set

**Description:** Formulated to extend the setting time of concrete. Does not contain calcium chloride or other potentially corrosive materials and compatible with all standard concrete admixtures.

**Application:** Is a dry powdered admixture, packaged in a ready-to-use water soluble bag.

**Applicable Standards:**
- ASTM C-494 Type D
- AASHTO M-194
- CRD C-87

**Dosage:**
- Use 3–5 oz./100 lbs. of cementitious material for every 3 hrs of set delay required. Refer to the Standard Delayed Set Dosage Rate Chart to determine quantities required.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FZ 95200</td>
<td>2 lb. bag, 18/case, 38 lbs.</td>
</tr>
</tbody>
</table>

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Super Slump Buster

**Description:** Dry powdered slump reducing agent packaged in a patented, ready-to-use, water soluble bag. Uniquely formulated to provide the ready mix producer with an economical solution to a concrete mix with too high a slump for proper placement. Environmentally safe and compatible with all conventional materials, soaps or air entraining agents. Does not affect air content, strengths, or water cement ratio. It is a viscosity modifier.

**Application:** Permits controlled slump reduction. Allows placement on inclines, curbs, etc. Permits placing different flows from the same load. Minimizes segregation. Allows for maximum truck utilization. Improves finishing characteristics.

**Dosage:** Super Slump Buster should be dosed at the rate of one 8 oz. water-soluble inner per 4 yd. for each 2–3" of slump reduction required.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>FZ 97180</td>
<td>8 oz., 60/case, 32 lbs.</td>
</tr>
</tbody>
</table>

Plastol 341

**Description:** A dual purpose, high range water reducing liquid admixture. A non air entraining, normal setting admixture which produces high strength and/or increased slump concrete. Contains no chlorides. Higher slump improves workability and reduces labor. Full flow action aids in pumping. Decreased vibration; up to 20% water reduction.

**Application:** Where increased early strengths are needed. Where increased slump for improved workability and reduced labor cost are desired. Where tightly spaced reinforcing steel is being used. In precast/prestressed concrete. Excellent aid for pump mixes. In concrete for pavements, slabs, and bridge deck overlays.

**Dosage:** 7-10 fl. oz./sack of cement. Higher dosages may be used. For information contact Masons.

**Applicable Standards:**
ASTM C-494, Type A and Type F
AASHTO M-194,
ANSI/NSF STD 61 registered

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU 5G341</td>
<td>5 gal. pail, 50 lbs, 24/pallet</td>
</tr>
<tr>
<td>EU 55G341</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>
**Super Plasticizers**

**Supercizer 1**

**Description:** A slump enhancer, may be added with the normal amount of mix water to produce more flowable concrete with up to a 6 in. slump increase. When used as a high range water reducer, it will increase concrete compressive strength at all ages, reduce permeability and increase durability. Does not contain calcium chloride, nitrates, nitrites or other potentially corrosive materials and is compatible with all standard concrete admixtures.

**Application:** Is a dry powdered admixture, packaged in a ready-to-use soluble bag. Formulated to produce stronger more durable concrete.

**Applicable Standards:**
ASTM C-494 Type F, AASHTO M-194, CRD-87

**Dosage:** Use a dosage rate equal to 5–7 oz./100 lbs. of total cementitious materials (.30–.45%). One 1¾ lb. bag is recommended for each cubic yard of concrete to increase the slump up to 6 in. or to achieve up to 20% water reduction. The slump gain will remain in effect for 30–45 min.

**No.** | **Size**
---|---
F2 95575 | 1¾ lb. bag, 24/case, 45 lbs.

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**Supercizer 5**

**Description:** As a super plasticizer may be added with the normal amount of mix water to produce more flowable concrete with up to a 6 in. slump increase. When used as a high range water reducer, will reduce water requirements up to 25%, increase concrete compressive strength at all stages, reduce permeability and increase durability. Compatible with all standard concrete admixtures.

**Application:** Is a dry powdered admixture, packaged in a ready-to-use water soluble bag. Formulated to produce stronger more durable concrete.

**Applicable Standards:**
ASTM C-494 Type F, AASHTO M-194, CRD-87

**Dosage:** Equal to 5–7 oz./100 lbs. of total cementitious materials (.30–.45%). One 1¾ lb. bag is recommended for each cubic yard of concrete to increase the slump up to 6 in. or to achieve up to 25% water reduction. The slump gain will remain in effect for 30–45 min.

**No.** | **Size**
---|---
F2 95600 | 1¾ lb. bag, 24/case, 45 lbs.

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
C-1000 / C-2000

**Description:** Packaged in the form of a dry powder consisting of Portland cement, very fine treated silica sand and various active proprietary chemicals. The active chemicals react with the moisture in fresh concrete and with the by-products of cement hydration, causing a catalytic reaction which generates a non-soluble crystalline formation of dendritic fibers throughout the pores and capillary tracts of the concrete. The concrete becomes permanently sealed against the penetration of water or liquids, and the concrete is protected from deterioration due to the effects of harsh environmental conditions.

**Application:** A unique crystalline technology for the waterproofing, protection and improvement of concrete is added to the concrete mix at time of batching. C-1000 has been formulated for use when ambient temperatures are cooler at time of the concrete pour, or when extended retardation of set is anticipated. C-2000 has been formulated for use when normal temperatures conditions exist at time of the concrete pour.

**Dosage:**
- **C-1000:** 2–3% by weight of cement
- **C-2000:** 2% by weight of cement

Euco Integral Waterpeller®

**Description:** A balanced blend of stearate water repellents and other chemicals which, when used as an admixture, forms an internal barrier against water penetration. Integral Waterpeller also increases the plasticity of mortar, reduces water absorption and thereby guards against freeze-thaw damage. It is available in a white powdered form without chloride. Will not increase the air content of mortar or concrete. Reduces moisture absorption as much as 60%, reduces capillary action, vapor transmission through walls/slabs, and provides greater workability while not effecting bond strength of mortar.

**Application:** Primary applications are mass concrete, foundation walls, floors, cement stucco, mortar for setting masonry and glass block.

**Technical Information:**
- **Absorption Ratio:**
  - Fed. Spec. SS-C-181b
  - Plain Mortar: 0.34
  - Mortar w/ "Dry" Waterpeller: 0.18

- **Relative Absorption:**
  - Plain Mortar: 100%
  - Mortar w/ "Dry" Waterpeller: 53%

**Concrete Absorption**
- **Total Immersion:**
  - Plain Mortar: 10 min 1.28% 24 hrs 4.10%
  - Mortar w/ "Dry" Waterpeller: 0.47% 0.65%

**Dosage:** 4 to 6 lb powder of Integral Waterpeller will treat 1 yd³ of concrete or mortar.
- 1 lb per 94 lb bag of cement.
- 1/4 lb per bag of prepared mortar.

In cement-lime mortar the above quantities should be added for each 1 ft³ of lime, in addition to the quantity added for each bag of cement. Integral Waterpeller may be added to the mix after all other components have been added.

**Note:** Follow cold weather concreting practices.

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
FORM RELEASE GUIDE

Before application, forms need to be dry, clean and free of rust. Rust and dirt will transfer to the concrete surface. We often recommend treating new regular plywood with a lime water solution prior to its first use in forming. This solution will neutralize the naturally occurring wood sugars in the plywood.

Apply form releases only during dry weather. Apply with a low pressure spray using a wide angle, low flow, flat, fan type spray nozzle. Do not use a spray nozzle designed for curing compounds, it will over apply the material. All new wood forms require a heavy application of form release prior to their first use. This application should be heavy enough to saturate the wood forms. Multiple coats of form release are often necessary to accomplish this saturation, and we recommend waiting at least 5 to 6 hours between coats. On smooth, dense forms, i.e. steel or treated aluminum, the best performance will be achieved by spraying the form release followed by wiping down the forms with a clean soft cloth.

Do not over apply. Over application can result in surface dusting and the formation of bug holes. Bug holes are caused by the “curtaining” formed by the excess release retarding the vertical movement of the entrapped air as the concrete is consolidated; rather than rising, the entrapped air follows the line of the “curtaining” creating bug holes. Neutral releases will not cause as much buildup on forms nor will they cause dusting as the reactive release will in the event of over application.

Avoid over spraying onto reinforcing steel; it may act as a bondbreaker on reinforcing steel.

All form releases do not behave the same when exposed to weather. In heavy rains, for example, some light bodies form releases will wash off the forms. We recommend checking the form release you are using for its “body” or thickness.

Masons promotes 2 types of releases. Reactive releases that contain fatty acids that react with the alkali in the concrete to form a soap, a process known as saponification. The thin film of soap created allows the form to easily release from the concrete.

Neutral releases contain fatty acids that is partially neutralized. These are more forgiving than reactive should they be over applied.

The following section has these 2 types of releases broken down into sections for your identification. Also included is a chart to show compatibility with your form surface. If you have any questions that are not covered in this section, call your nearest Masons Supply branch for more information.
**FORM RELEASES**

<table>
<thead>
<tr>
<th>CODE</th>
<th>PRODUCT</th>
<th>SIZE</th>
<th>UNIT</th>
<th>APP RATE</th>
<th>RAIN RESIST</th>
<th>SUPER PLAST</th>
<th>MAX A FORM</th>
<th>STEEL PLY</th>
<th>PLY DECK</th>
<th>PLAST LINER</th>
<th>TREAT LIPER</th>
<th>BB PLY</th>
<th>MDO PLY</th>
<th>MDI RESIST</th>
<th>STEEL MASON</th>
<th>ITIE</th>
<th>STYRO FOAM</th>
<th>APPR</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 55GMKP</td>
<td>MASCOKOTE PREMIUM</td>
<td>5.55 GAL</td>
<td>1-3 MSF</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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</table>

**APPLICATIONS:**
- RELEASE AGENTS FOR PORTLAND CEMENT
- CONSULT SPECIFICATIONS SHEETS FOR COMPLETE TECHNICAL
- MANY RELEASES FOR DIFFERENT FORMING SURFACES AVAILABLE
- INSTALLATION AND SURFACE PREP PROCEDURES

**CONCRETE**

<table>
<thead>
<tr>
<th>CONCRETE ADMIX</th>
<th>FORM TYPE</th>
<th>PRODUCTS</th>
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</thead>
<tbody>
<tr>
<td>STEEL / WOOD</td>
<td>LOW OR NO DRAFT</td>
<td>RUFF RELEASE</td>
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<tr>
<td>PLASTIC LINER</td>
<td>FORM LINER</td>
<td>RUFF RELEASE</td>
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<td>MASCOKOTE VOC</td>
<td>SSR3</td>
<td>RUFF RELEASE</td>
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<tr>
<td>MASCO PREMIUM</td>
<td>SSR3</td>
<td>RUFF RELEASE</td>
</tr>
<tr>
<td>SSR3</td>
<td>RUFF RELEASE</td>
<td>TUFF RELEASE</td>
</tr>
<tr>
<td>STEEL / WOOD</td>
<td>MASCOKOTE VOC</td>
<td>TUFF RELEASE</td>
</tr>
<tr>
<td>FIBERGLASS</td>
<td>MASCOKOTE VOC</td>
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<td>MASCOKOTE VOC</td>
<td>SSR3</td>
<td>TUFF RELEASE</td>
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<td>SPECIAL APPL</td>
<td>STYROFOAM</td>
<td>KLEEN KOTE</td>
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<tr>
<td>NORMAL CONCRETE</td>
<td>BB PLY</td>
<td>MASCO BIO RELEASE</td>
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<tr>
<td>FINISH</td>
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<td>RUFF RELEASE</td>
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<tr>
<td></td>
<td></td>
<td>TUFF RELEASE</td>
</tr>
</tbody>
</table>

**COMPATIBLE SURFACES**

- PETROLEUM BASED
- WATER BASED EMULSION

Visit us online at www.masco.net
**Mascokote Premium**

**Description:** A reactive form release with a mineral carrier that leaves an architectural or high visual impact concrete surface. Manufactured with virgin oil and organic chemicals which react with the concrete to prevent adhesion and provide a quick and easy release. Films rapidly on all form surfaces, not slippery, prevents accumulation of dust, and cannot be removed by normal rain showers. Will not break down with steam. Water insoluble, contains no kerosene, diesel, silicone or waxes to reduce effectiveness and damage formwork. It is a thin amber liquid that remains fluid at subfreezing temperatures and can be stored indefinitely. Produces architectural concrete by eliminating bug holes caused by thick form oils. Provides a quick, easy release without staining, discoloration, or pitting. Leaves no residue or cement dust on the concrete surface when properly applied. Concrete is left with an architectural surface and ready for application of curing compounds, sealers, and coatings. When any material is to be applied on top of the concrete, follow the application instructions of the material manufacturer.

**Coverage:**
- Steel, Plastic, Fiberglass: 2000 sq ft/gal
- Conditioned Aluminum: 2000 sq ft/gal
- HDO Plywood: 2000 sq ft/gal
- MDO Plywood: 1500 sq ft/gal
- Dimensional Lumber: 1000 sq ft/gal
- BB Grade Plywood: 1000 sq ft/gal

**Application**:
- Forms should be free from dirt, hardened concrete and foreign matter. Release agent is ready to use direct from container. Can be applied with a sprayer, roller or brush at all working temperatures. Apply a thin film for maximum protection and economy. Spray areas uniformly. Over application creates dusting. Prior to coating plywood forms, apply one or two heavy coats to edges for waterproofing protection. When subsequent material is to be applied to the concrete, follow the application and preparation instructions of the material manufacturer.

**Applicable Standards**:
- Corps of Engineers CEGS-03300, Section 10.8 Form Coating, Navy Dock and Piers 56359. VOC Compliant.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS SGMK</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
<tr>
<td>MS SSGMK</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

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**Mascokote VOC**

**Description:** A chemical active release agent in a mineral oil carrier for concrete forms which effectively prevents bonding of concrete to the form. For use in steel, plywood, and treated aluminum forms. Manufactured with virgin oil and organic chemicals which react with the concrete to prevent adhesion and provides a quick and easy release. This quick, easy release is provided without staining, discoloration or pitting and leaves no residue or cement dust on the concrete surface if properly applied. Concrete is left with an architectural surface ready for application of curing compound, sealer, bondable for plaster, mastics or paints when used in accordance with manufacturer’s instructions.

**Application**:
- Forms should be free from dirt, hardened concrete and foreign matter. Release agent is ready to use direct from container. Can be applied with a sprayer, roller or brush at all working temperatures. Apply a thin film for maximum protection and economy. Spray areas uniformly. Over application creates dusting. Prior to coating plywood forms, apply one or two heavy coats to edges for waterproofing protection. When subsequent material is to be applied to the concrete, follow the application and preparation instructions of the material manufacturer.

**Applicable Standards**:
- Corps of Engineers CEGS-03300, Section 10.8, Navy Dock, and Piers 56359, VOC Compliant.

<table>
<thead>
<tr>
<th>No.</th>
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<tbody>
<tr>
<td>MS SGMK</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
<tr>
<td>MS SSGMK</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
PETROLEUM BASED

Ruff Release

Description: A unique thickened blue colored release agent primarily for low or no draft applications on rough, irregular or smooth surfaces. Ruff Release yields a smooth and easy release from all types of form surfaces.

Application: Apply Ruff Release to the most intricate and difficult form surfaces where release stresses may pose problems or where other release issues are anticipated. Ruff Release works well in all applications and will not stain the surface on which it is used. May be used on all types of form surfaces including plastic, rubber or styrofoam. Apply a very thin coat with a rag, sponge or swivel type mop. Wipe off excess prior to casting.

Tuff Release

Description: Semi-Liquid, high viscosity release which ensures the highest quality architectural and structural surfaces. Will not stain the concrete or affect adhesion of waterproofing or other coatings. Designed for use with the most intricate molds and forms; especially with low or no draft applications and when using highly superplasticized (SCC) mixes. May be used on all types of formwork including plastic, rubber or styrofoam.

Application: Remove any oil or grease residues from the form surface left from previously used releases. Apply Tuff Release in a very thin coat by brush, roller or by spray using a High Volume Low Pressure spray gun or by jiffy mop with a swivel assembly. Wipe out excess oil with a slightly oil moistened mop or rag. Allow surface to dry prior to concrete placement.

Kleen Kote

Description: A water based industrial release that is V.O.C. compliant. It helps prevent asphalt, concrete, dirt and other debris from sticking to treated equipment, forms, hardware, tools and trucks. Depots a very thin film causing the surface to become virtually non-stick. Environmentally safe and does not contain any solvents or phosphates. Kleen Kote is water soluble. Non-Staining and Non-Dusting. Meets Army Corp. of Engineer Specs.

Application: Can be used as a rust inhibitor. Safe for use on all surfaces. Will not rinse off in the normal rain once a day. Economical - Concentrate mixes easily with water. Concentrate form reduces your shipping costs. Using a clean spray container add Kleen Kote & water to achieve the recommended ratio for your application. Adding to water and then adding more water will eliminate need for mixing. May be applied at any time. Application surface should be clean prior to use. Remove all other release agents before applying. Spray on, then let change from white to clear before using. Reapply after every use.

Concrete Forms: Wood, aluminum, plastic etc. - make sure to clean or cast off as much of the old release as possible to eliminate any reaction between Kleen Kote and your old form release. Do NOT switch back and forth between Kleen Kote and other release agents. If forms are new, season them just as you would with oil. 11 to 1 for porous surfaces and 15 to 1 for non-porous surfaces.

Coverage: 1 gallon of Kleen Kote is required to cover approximately 1,000 to 2,000 ft², depending on surface type. Spray on for best performance and ease of application.

WATER BASED EMULSION

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
WATER BASED EMULSION

**Masco Bio Release**

*Description:* Using the latest micro-emulsion technology, Masco Bio Release is an innovative, 100% natural, organic chemical release agent. Provides quick, easy release and leaves an architectural bondable concrete surface.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>MS 5GBR</td>
<td>5 gal, pail, 50 lbs., 24/pallet</td>
</tr>
<tr>
<td>MS 55GBR</td>
<td>55 gal, drum, 550 lbs.</td>
</tr>
</tbody>
</table>

**Application:** Ideal for sensitive environmental situations such as bridge framework over rivers and streams or potable water reservoirs. Chemically releases concrete from plywood, steel, aluminum, polystyrene, and fiberglass forms and formliners. Prevents concrete build-up on all equipment. Cleans and reconditions forms. Helps eliminate build-up and bug holes.

**Coverage:**
- Steel, Aluminum, Plastic, High Density Plywood: 1,000–1,500 ft²/gal.
- Medium Density Plywood, Paper Column Forms: 1,000–1,250 ft²/gal.
- BB Grade Plywood: 1,000 ft²/gal.
- Rough Sawn Lumber, Straited Plywood: First use, 2 coats: 500 ft²/gal./coat, Subsequent uses: 1,000 ft²/gal.

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**SSR 3**

*Description:* SSR3 (Synthetic Stone Release) is a ready to use, non-toxic, water-based stable emulsion with excellent release and surface consolidation properties. It is formulated to reduce surface imperfections in precast, prestressed and cast-in-place concrete. It works well on all types of form surfaces as well as rubber, plastic or urethane form liners. Promotes easy removal, provides a water repellent, rain resistant and rust inhibiting film to the formwork. It is suitable for both indoor and outdoor applications particularly where VOC emissions are limited in the workplace.

<table>
<thead>
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<th>No.</th>
<th>Size</th>
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<tbody>
<tr>
<td>ACC 5GSSR3</td>
<td>5 gal, pail, 50 lbs., 24/pallet</td>
</tr>
</tbody>
</table>

**Application:** Applied as a release agent and surface consolidating agent on all types of formwork, including but not limited to wood, metals, polyester coated, plastic, rubber or urethane lined surfaces where a high quality release and void free surface are of the utmost importance. When the water is atomized by high-pressure spray application, SSR3 is ideal for automated wet cast production facilities when an airless spray bar is used to apply the release in-line. Suitable for all types of cements, white or gray, colored and non-colored as well. Consult data sheet for complete application instructions.

**Coverage:** 5 gallon pail yields 2,500 – 3,500 sq.ft./gal.

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Form Seal

**Description:** Form seal is a pre-catalyzed polyurethane coating having outstanding abrasion, wear and chemical resistance. The film has a high degree of flexibility and works extremely well pre-treating wood and concrete formwork where medium re-use of up to 40 casts are expected. Form Seal can be used to seal all types of wood or concrete formwork.

**Application:** Remove any grease or oils from the surface prior to use. Brush, roll or spray a thin coat of Form-Seal. If the surface to be coated is porous it is best to apply a dilute solution of 2-parts Form Seal and 1-part Xylene to assure better penetration. Apply a second or third coat to the surface while the first coat remains tacky to assure proper adhesion. If the first coat has dried prior to the application of subsequent coats lightly sand the surface to roughen it and create a better anchor profile for proper adhesion. **Note:** When applying Form-Seal to concrete mix it is best to lightly sandblast or acid etch the surface prior to applying the coating. If acid etching is preferred, it is best to wait a minimum of 48 hours before proceeding with the Form Seal, allowing for thorough drying of the concrete substrate to be coated.

**Specifications:**
- **Specific Gravity:** 0.985
- **Tensile Strength:** 3,500 psi
- **Drying Time:** 2-1/2 hours
- **Elongation:** 150%
- **Impact Resistance:** 160 in-lbs

**Coverage:** 1 gallon yields 300-400 sq. ft. per coat. 2 coats recommended.

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Fibermesh® 150

**Description:** Expressly formulated to address early age cracking problems, Fibermesh® 300 micro-synthetic fibers prevent 80-100% of all cracks in the plastic state—precisely when most cracks occur. During the plastic settlement phase, the fibers create a three-dimensional support network that resists the downward pull of gravity, thus keeping aggregates in suspension and promoting uniform bleeding. This network increases the tensile strain capacity of concrete during the plastic shrinkage phase as well. Reduces cracking in concrete from plastic shrinkage & settlement, impact & shattering, and fire spalling. Fibermesh® 150 is safe & easy to handle, mixable reinforcement, durable & economical, non-corrosive and provides perfect placement of reinforcement.

**Application:** Applicable to all types of concrete which demonstrate a need for resistance to intrinsic cracking and improved water tightness and an aesthetic finish.

- Residential & Light Commercial
- Overlays / toppings
- Slab on Grade
- Driveways / sidewalks / curbs
- Precast
- Stucco

**Applicable Standards:** Complies with National Building Codes and ASTM C 1166/C 1166M, Type III fiber reinforced concrete.

**Specifications:**
- Absorption: Nil
- Specific Gravity: 0.91
- Fiber Length: Graded
- Electrical Conductivity: Low
- Acid & Salt Resistance: High
- Melt Point: 324°F
- Ignition Point: 1100°F
- Thermal Conductivity: Low
- Alkali Resistance: Alkali Proof

**Dosage:** 1.0 to 1.5 lbs. per cubic yard.

(Sold only to Redi-mix Concrete Suppliers and Precasters)

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Fibermesh® 300

**Description:** Fibermesh® 300, a micro-reinforcement system for concrete—100 percent virgin homopolymer polypropylene fibrillated fibers with e3® patented technology containing no reprocessed olefin materials. Designed for use as concrete secondary reinforcement. It is non-magnetic, rustproof, alkali proof and requires no minimum amount of concrete cover. Safe and easy to use, it is an alternate system to welded wire reinforcement. Fibermesh® 300 inhibits and controls the formation of intrinsic cracking in concrete.

**Application:** Applicable to all types of concrete which demonstrate a need for toughness, resistance to intrinsic cracking and improved water tightness. Such applications include:

- Slabs-on-ground
- Stucco
- Curbs
- Composite Metal Decks
- Sidewalks
- Slope Paving
- Driveways
- Shotcrete
- Overlays & Toppings

**Applicable Standards:** UL Classified. Complies with National Building Codes and ASTM C 1166/C 1166M, Type III fiber reinforced concrete.

**Specifications:**
- Absorption: Nil
- Specific Gravity: 0.91
- Fiber Length: Graded
- Electrical Conductivity: Low
- Acid & Salt Resistance: High
- Melt Point: 324°F
- Ignition Point: 1100°F
- Thermal Conductivity: Low
- Alkali Resistance: Alkali Proof

**Dosage:** 1.5 lbs. per cubic yard.

(Sold only to Redi-mix Concrete Suppliers and Precasters)

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Fibermesh® 650

**Description:** Fibermesh® 650 is an engineered graded macro-synthetic fiber used for secondary reinforcement for concrete—an alloy polymer macro-synthetic fiber featuring e® patented technology manufactured to an optimum gradation and highly oriented to allow greater surface area contact within the concrete resulting in increased interfacial bonding and flexural toughness efficiency. Fibermesh® 650 requires no minimum amount of concrete cover. It is uniformly positioned in the concrete, safe and easier to use than traditional reinforcement. Used as an alternate to welded wire reinforcement and light rebar. Inhibits the formation of plastic shrinkage and plastic settlement cracking.

<table>
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<tr>
<td>PX FM650</td>
<td>1.5 lb. bag, 10 bags/box (15 lb. box), 27 boxes/pallet (405 lb. pallet)</td>
</tr>
</tbody>
</table>

(Sold only to Redi-mix Concrete Suppliers and Precasters)

**Application:** Fibermesh® 650 is a pumpable reinforcement. Primary applications include:
- Slabs-on-ground
- Sidewalks/Driveways
- Parking Areas
- Overlays & Toppings
- Exterior Pavements
- Non-magnetic applications
- Shotcrete
- Composite Metal Decks

**Applicable Standards:**
Complies with ASTM C III/C III-M, Type I and Type III fiber reinforced concrete.

<table>
<thead>
<tr>
<th>Specifications</th>
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</thead>
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<tr>
<td>Absorption:</td>
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<tr>
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<td>Electrical Conductivity:</td>
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<td>Acid &amp; Salt Resistance:</td>
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<tr>
<td>Melt Point:</td>
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<tr>
<td>Aspect Ratio:</td>
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<tr>
<td>Dosage:</td>
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</tbody>
</table>

Novomesh® 850

**Description:** Novomesh® 850, secondary reinforcement system for concrete—a patented blend of cold drawn steel wire fiber and 100 percent virgin homopolymer polypropylene graded multifilament fiber containing no reprocessed olefin materials. Novomesh® 850 requires no minimum amount of concrete cover. It is safe and easier to use than traditional reinforcement. Has a greater cross-sectional area of steel than 6x6 wire mesh. Saves time and hassle on the job. Used as an alternate to welded wire reinforcement and light rebar. Designed for reduced water migration and damage from freeze/thaw.

<table>
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<th>No.</th>
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<tbody>
<tr>
<td>PX NM850</td>
<td>24 lb. bags, 72 bags/pallet (1.728 lb. pallet)</td>
</tr>
</tbody>
</table>

(Sold only to Redi-mix Concrete Suppliers and Precasters)

**Application:** Applicable to all types of concrete in the commercial market segment that demands the early age benefits of synthetic fibers and long-term performance of steel fibers. The commercial market segment can include stores, hotels, institutional, educational, health care, amusement, offices, churches and storage facilities. Primary applications include:
- Slabs-on-ground
- Sidewalks/Driveways
- Parking Areas
- Overlays & Toppings
- Composite Metal Decks

**Applicable Standards:**

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polypropylene Component:</td>
</tr>
<tr>
<td>Absorption:</td>
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<tr>
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<td>Fiber Length:</td>
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<td>Electrical Conductivity:</td>
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<td>Melt Point:</td>
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<tr>
<td>Steel Component:</td>
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<tr>
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<tr>
<td>Aspect Ratio:</td>
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<tr>
<td>Deformation:</td>
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<tr>
<td>Dosage:</td>
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</tbody>
</table>

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 179-180 for more information.
Novomesh® 950

Description: The new and improved Novomesh® 950 secondary reinforcement system for concrete is a blend of polypropylene polyethylene high performance macro-monofilament fibers with geometrically designed, patented sinusoidal deformations and 100% virgin polypropylene micro-synthetic fibers containing no reprocessed olefin materials. With a wider cross-section resulting in an increased surface area of the macro fiber, the new blend delivers improved adhesion in the concrete mix, increased bond strength and an overall increase in performance for toughness and crack holding capability. Novomesh® 950 requires no minimum amount of concrete cover. It is safe and easier to use than traditional reinforcement. Saves time and hassle on the job. Macro-synthetic /micro-synthetic fiber blend for secondary reinforcement in lieu of welded wire reinforcement and light rebar. Designed to reduce water migration and damage from freeze/thaw.

Application: Applicable to all types of concrete in the commercial market segment that require a synthetic system for secondary reinforcement and where steel reinforcement cannot be used. The commercial market segment can include stores, hotels, institutional, educational, health care, amusement, offices, churches and storage facilities. Primary applications include:

- Slabs-on-ground
- Parking Areas
- Exterior Pavements
- Sidewalks/Driveways
- Overlays & Toppings
- Non-magnetic applications
- Runways

Applicable Standards:
Complies with ASTM C III6/C III6M, Type III fiber reinforced concrete.

Specifications:

Polypropylene Component:
Absorption: Nil
Specific Gravity: 0.91
Fiber Length: Multi-Design Gradation
Electrical Conductivity: Low
Melt Point: 324˚F

Coarse Macro-Monofilament Polypropylene Component:
Absorption: Nil
Specific Gravity: 0.91
Nominal Filament Diameter: 0.033 in
Fiber Length: 1.8 in
Electrical Conductivity: Low
Melt Point: 328˚F

Dosage: Minimum addition rate of 5 lbs. per cubic yard.

No. Size
PX NM950 5 lb. bag, 5 bags/box (25 lb. box), 27 boxes/pallet (675 lb. pallet)

(Sold only to Redi-mix Concrete Suppliers and Precasters)
**SURFACE PREP FOR ADHESIVES GUIDE**

Proper surface preparation is a key to the successful use of epoxy adhesives. Careful planning and execution of the cleaning and preparation procedures will lead to maximum efficiency in the application phase and greatest durability in use.

The following tests can be used to evaluate the condition of the substrate and the effectiveness of the surface preparation procedures.

### Strength

The direct tensile strength of the surface may be determined by a pipe cap pull-off test or a commercially available adhesion tester. Pull-off strength should be a minimum of 200 psi.

### Contaminants

The presence of grease, wax, oil, curing compounds, or other sealers may be detected by dropping a small amount of diluted muriatic acid onto the surface. No reaction indicates that contaminants are present. If oil has penetrated into a concrete surface, it may be detected by raising the temperature of a small area to about 150°F (66°C) with a heat lamp. Presence of the contaminant is indicated if oil appears or the area becomes “greasy” to the touch.

### Concrete Surfaces

- Remove grease, wax and oil contaminants by scrubbing with Envirosol (page 112) an industrial grade cleaner and follow with mechanical cleaning.
- Remove weak or deteriorated concrete to sound concrete by bush hammering, shot or grit blasting, scarifying, waterblasting or other suitable mechanical means.
- Remove dirt, dust, laitance and curing compounds by shot or grit blasting, water blasting or scarifying. Acid etching with 15% hydrochloric acid should be used only if there is no practical alternative. Etching often produces a fine dust which may act as a bondbreaker. When employed, etching must be followed by scrubbing and flushing with large amounts of clean water to remove residual chemicals. Check for removal of acid with moist pH paper. Reading should be greater than 10. Follow mechanical cleaning with vacuum cleaning.

### Steel Surfaces

- Remove dirt, grease and oil with Envirosol (page 112) or suitable industrial grade cleaning and degreasing compounds.
- Remove rust and mill scale by grit blasting. Blast steel to white metal. Follow grit blasting with vacuuming or oil-free, dry air blast and solvent cleaning.

Stir Part A & Part B separately before mixing together, then mix A & B together for 3 minutes using a Jiffy mixer, or equal, powered by a low speed electric drill.

### Liquid Adhesive

Apply the liquid bonding agent with a brush, paint roller, squeegee, conventional spray or airless spray. The minimum bond line thickness is 15 mils. When bonding fresh concrete to existing concrete, the new concrete to be bonded should be a relatively dry mix with a maximum slump of 3 in.

### Coverage Rates

**Liquid Adhesive**

- Smooth surfaces - 100 ft²/gal.
- Rough surfaces - 50 to 75 ft²/gal.

**Paste Adhesive**

Apply the neat paste with a trowel in sufficient quantities to fill all gaps between the mated surfaces. The bond line thickness should be between 1/32 in. and 1/8 in. Deep surface irregularities can be faired with a 1 to 1 sand:epoxy mix, followed by neat application of adhesive within 24 hours.

### Concrete Surfaces

- Smooth surfaces - 12 ft²/gal.
- Rough surfaces - 6 ft²/gal.

### Binder Adhesive

Mix 1 part mixed binder with 3 to 4 parts kiln dried clean graded sands to desired consistency. Ratio can vary with temperatures. Prime surface to be repaired with neat binder then immediately apply epoxy mortar. Consolidate and finish with steel trowel.

### Mortar Coverage Rates (gallons)

- 3 to 1 sand:binder yields 2.8 gals./17.5 ft² @ 1/4”
- 4 to 1 sand:binder yields 3.4 gals./21.5 ft² @ 1/4”

### Primer Coverage Rates

Smooth surfaces - 100 ft²/gal.
- Rough surfaces - 50 to 75 ft²/gal.

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**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.

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**MASONS SUPPLY COMPANY**

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## ADHESIVE ANCHORING / GEL EPOXY

### ANCHORING EPOXY CARTRIDGE SYSTEMS

<table>
<thead>
<tr>
<th>TYPE</th>
<th>CODE</th>
<th>PRODUCT</th>
<th>UNIT</th>
<th>LOOSE BOND</th>
<th>ADHESION</th>
<th>MORTAR Binder</th>
<th>APP Life</th>
<th>NON SAG</th>
<th>BOND C-882</th>
<th>COMP PSI</th>
<th>INTIAL CURE</th>
<th>FINAL CURE</th>
<th>TEMP</th>
<th>APPROVAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>IV</td>
<td>3</td>
<td>A,B,C</td>
<td>EPC A7</td>
<td>28 OZ</td>
<td>10-1</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>10/70</td>
<td>6 MIN</td>
<td>32 MIN</td>
<td>0-100F</td>
<td>10,700 ODOT/WSDOT</td>
<td></td>
</tr>
<tr>
<td>UNIV</td>
<td>3</td>
<td>B,C</td>
<td>CIA GEL 7000</td>
<td>22.9 OZ</td>
<td>1-1</td>
<td>40</td>
<td>YES</td>
<td>NO</td>
<td>20/70</td>
<td>18,500 ODOT/WSDOT</td>
<td></td>
<td></td>
<td></td>
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</table>

### GEL EPOXY

<table>
<thead>
<tr>
<th>TYPE</th>
<th>CODE</th>
<th>PRODUCT</th>
<th>UNIT</th>
<th>LOOSE BOND</th>
<th>ADHESION</th>
<th>MORTAR Binder</th>
<th>APP Life</th>
<th>NON SAG</th>
<th>BOND C-882</th>
<th>COMP PSI</th>
<th>INTIAL CURE</th>
<th>FINAL CURE</th>
<th>TEMP</th>
<th>APPROVAL</th>
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<tbody>
<tr>
<td>I</td>
<td>C</td>
<td>MB 1G PL</td>
<td>CONCRETE Paste LPL</td>
<td>1 GAL</td>
<td>2-1</td>
<td>231</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>60 MIN</td>
<td>1,500@7</td>
<td>14,000</td>
<td>1 DAY</td>
<td>7 DAY</td>
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<tr>
<td>I</td>
<td>B,C</td>
<td>CIA GEL 7000</td>
<td>2 GAL</td>
<td>1-1</td>
<td>462</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>30 MIN</td>
<td>2,000@7</td>
<td>11,000</td>
<td>2 DAY</td>
<td>14 DAY</td>
<td>40-90F ODOT/WSDOT</td>
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</tbody>
</table>

### ASTM C-881 STANDARDS FOR EPOXY ADHESIVES

**TYPE:**

- **I** FOR USE IN NON-LOAD BEARING APPLICATIONS FOR BONDING HARDENED CONCRETE TO HARDENED CONCRETE AND OTHER MATERIALS, AND AS A BINDER IN EPOXY MORTARS / CONCRETES.
- **II** FOR USE IN NON-LOAD BEARING APPLICATIONS FOR BONDING FRESHLY MIXED CONCRETE TO HARDENED CONCRETE.
- **III** FOR USE IN BONDING SKID RESISTANT MATERIALS TO HARDENED CONCRETE, AND AS A BINDER IN EPOXY MORTARS / CONCRETES USED ON TRAFFIC BEARING SURFACES. (OR SURFACES SUBJECT TO THERMAL OR MECHANICAL MOVEMENTS.)
- **IV** FOR USE IN LOAD BEARING APPLICATIONS FOR BONDING HARDENED CONCRETE TO HARDENED CONCRETE AND OTHER MATERIALS, AND AS A BINDER FOR EPOXY MORTARS / CONCRETES.
- **V** FOR USE IN LOAD BEARING APPLICATIONS FOR BONDING FRESHLY MIXED CONCRETE TO HARDENED CONCRETE.

**GRADE:**

- **1** LOW VISCOSITY, 1 - 500 CPS. WATER TO MOTOR OIL.
- **2** MEDIUM VISCOSITY, 2,500 - 10,000 CPS. SYRUP TO HONEY.
- **3** NON-SAG CONSISTENCY, 250,000 - 1,000,000 CPS, PEANUT BUTTER TO CAULKING.

**CLASS:**

- **A** APPLICATION TEMPERATURE LESS THAN 40 F.
- **B** APPLICATION TEMPERATURE BETWEEN 40 - 60 F.
- **C** APPLICATION TEMPERATURE ABOVE 60 F.

### ASTM C-881 MATERIALS

#### TYPE

- **CONCRETE Paste SPL**
- **FAST SET EPOXY GEL**
- **MASCOBOND HI-MOD GEL**
- **DURALCRETE INJECTION GEL**
- **FLEXOLITH 216 GEL**

#### APPLICATION

- **STRUCTURAL**
- **TEMP RANG 40-60 F**
- **TEMP ABOVE 60 F**
- **TEMP RANG 40-80 F**
- **TEMP RANG 0-40 F**

#### MATERIALS

- **EPC A7**
- **CIA GEL 7000**
## SET

**Description:** A two-component, 1:1 ratio, high solids, epoxy-based adhesive for use as a high strength, non-shrink anchor grouting material. Resin and hardener are dispensed and mixed simultaneously through the mixing nozzle. When properly mixed, SET adhesive will be a uniform light gray color.

**Application:** Designed for threaded-rod anchoring, rebar doweling, and bonding hardened concrete to hardened concrete. Also suitable for pick-proof sealant around doors, windows and fixtures, paste-over for crack injection.

**Applicable Standards:**
- ASTM C-881 Type I, II, IV, V, Grade 3, Class-B & C
- ICC-ES ESR 1772 (CMU & URM)

### Specifications
- Mix Ratio (volume): 1:1
- Consistency: Non-sag/viscous
- Heat Deflection: 136°F
- Bond Strength (moist cure):
  - 2 Days: 3,218 psi
  - 14 days: 3,366 psi
- Water Absorption: 0.110%
- Compressive Yield Strength: 5,065 psi
- Compressive Modulus: 439,000 psi
- Gel Time: 30 min–60 gram mass

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS</td>
<td>SET22</td>
</tr>
<tr>
<td>Size</td>
<td>22 fl oz. dual cartridge, 12/case, 30 lbs. (nozzle sold separate)</td>
</tr>
</tbody>
</table>

### Accessories
- SS EMNI22: 18-element mixing nozzle with integrated nut
- SS EDT22B: Manual cartridge gun for 22 oz.

---

## SET-XP™

**Description:** SET-XP™ is a two-component, 1:1 ratio, high solids, epoxy-based anchoring adhesive formulated for optimum performance in both cracked and uncracked concrete. Proven to offer increased reliability in the most adverse conditions, including performance in cracked concrete under static and seismic loading.

**Application:** Designed for use in tension and seismic zones where there is a risk of cracks occurring that pass through anchor location. It is also suitable for uncracked concrete conditions. Surfaces to receive epoxy must be clean. Cartridges should not be immersed in warm water to facilitate warming.

**Applicable Standards:**
- ASTM C-881 Type I, IV, Grade 3, Class-C epoxy
- ICC-ES ESR-2508

### Specifications
- Mix Ratio (volume): 1:1
- Consistency: Passed, non-sag
- Glass Transition Temp: 155°F
- Bond Strength (moist cure):
  - 2 Days: 3,742 psi
  - 7 Days: 12,650 psi
- Water Absorption: 0.10%
- Compressive Yield Strength: 14,830 psi
- Compressive Modulus: 644,000 psi
- Gel Time: 49 minutes

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS</td>
<td>SET22XP</td>
</tr>
<tr>
<td>Size</td>
<td>22 fl oz. dual cartridge, 12/case, 30 lbs. (nozzle sold separate)</td>
</tr>
</tbody>
</table>

### Accessories
- SS EMNI22: 18-element mixing nozzle with integrated nut
- SS EDT22B: Manual cartridge gun for 22 oz.

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.

---

**Masons Supply Company**

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**Epcon A7**

**Description:** The acrylic resin and hardening agent are completely mixed as they are simultaneously dispensed from the dual cartridge through a static mixing nozzle, directly into the anchor hole. Can be used with threaded rod or rebar. Easier to dispense at low temperatures.

**Application:** Can be used in all weather conditions down to 0°F and below. No drip, no sag, easy to cleanup. Fast and easy dispensing with 28 oz. cartridge in 16 sec. Fast curing time, 35 min at 60°F. Easy mixing ratio (20:1 formula sold in 10:1 cartridge, twice as much hardener as needed). Rods are easier to insert into the hole compared with other adhesives. Works in damp holes. Requires less adhesive and can be used in ¼” oversized or ⅛” oversized holes. One formula for both hollow and solid base materials.

**Specifications:**
- **Gel Time:**
  - 0°F: 4 hrs
  - 75°F: 6 min
- **Full Cure:**
  - 0°F: 24 hrs
  - 75°F: 30 min
- **Compressive Strength** (ASTM D-695): 10,700 psi
- **Tensile Strength** (ASTM C-307): 9,240 psi
- **Bond Strength** (ASTM C-882):
  - 2 day: 1,400 psi
  - 14 day: 2,000 psi
- **Coverage:**
  - 1 each 9.3 fl. oz. cartridge yields approximately 17 in³ of epoxy adhesive.

**Additional Information:**
- Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.
- **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
### Duralcrete® Injection Gel

**Description:** A 2-component, non-abrasive, 100% solids, low odor, moisture insensitive epoxy resin for injection into cracks where it is not possible to surface seal the back of the crack. Ideal for automated injection equipment. Non-abrasive. High modulus. Lubricity for deep penetration. Outstanding adhesion to concrete. Gray in color.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAM 2GIG</td>
<td>2 gal. unit, 24 lbs.</td>
</tr>
</tbody>
</table>

**Application:** Ideal for crack injection. Dowel bar, anchor bolt, and rebar adhesive. Hardened concrete adhesive. Repair concrete defects.

**Applicable Standards:**
- ASTM C-881-90; Types I, II, IV, and V; Classes B and C. AASHTO M-235.

**Coverage:** Coverage will vary depending on surface texture, porosity, and temperature. For anchoring, 1 neat gal. yields 231 in³ of grout. 1 gal. neat Duralcrete Injection Gel with 1 gal. dry 20/40 mesh silica sand will yield approximately 410 in³ of mortar.

**Specifications:**
- **Mix Ratio (volume):** 1A:1B
- **Pot Life (2 gal. unit):** 15–25 min
- **Viscosity:** Flowable gel
- **Tack Free:** 2–4 hrs
- **Compressive Strength (ASTM D-695):**
  - 1 day: 8,000 psi
  - 7 days: 10,250 psi
- **Tensile Strength (ASTM C-638):**
  - 14 days: 7,050 psi
- **Tensile Elongation (ASTM C-638):** 2.5%
- **Bond Strength (ASTM C-882):**
  - 2 days (moist cure): 2,015 psi
  - 14 days (moist cure): 2,236 psi
  - 14 days (dry cure): 3,250 psi
- **Heat Deflection:** 124° F

### FamoCrete

**Description:** A gray colored Non Structural Lo Modulus Fast Setting Gel for patching cracks in concrete. FamoCrete is a 2-component resin system that comes in a single cartridge. It is 100% solids and cures quickly to form a strong bond to concrete. Ideal for vertical repairs (Non-Sag). It is easy to apply (trowelable), and has excellent adhesions for restoration to damaged areas. FamoCrete has a fast full cure time of 24 hours after application. Less than 1% VOC. Contains no solvents.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>WV FC</td>
<td>6.1 fl oz single cartridge (includes nut and 2 nozzles), 12/case</td>
</tr>
</tbody>
</table>

**Application:** Can be used to fill voids or patch defects on walls. Also can be used to repair damaged areas on pillars, transitions or spalls on sidewalks, and broken or damaged areas on curbs.

**Specifications:**
- **Mix Ratio (volume):** 2A : 1B
- **Pot Life:** 2 min
- **Cure Time:**
  - Initial: 10 min
  - Final: 60 min
- **Viscosity:** Gel
- **Concrete Adhesion (ASTM D-4541):** 500 psi
- **Shore “A” Hardness (ASTM D-2240):** 92
- **Coverage:** 1 each 6.1 fl. oz. cartridge yields approximately 11 in³ of gel.

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Fast Set Epoxy Gel

**Description:** A 2 component, 100% solids, moisture insensitive epoxy resin compound also available in a convenient pre-packaged dual component cartridge kit. Features and benefits include rapid setting, high modulus, high strength, virtually no odor and moisture insensitivity.

**Application:** Fast turn-around epoxy injection, anchor bolt grouting, seal cracks, concrete repair, concrete adhesive, and low temperature applications.

**Applicable Standards:**
ASTM C-881; Types I, IV; Grade 3; Classes A, B.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAM FSG</td>
<td>8 fl. oz. cartridge, 24/case (includes nut &amp; nozzle), 24 lbs.</td>
</tr>
<tr>
<td>TAM NOZSQ</td>
<td>½” x 7” mixing square nozzle</td>
</tr>
</tbody>
</table>

**Specifications:**
- **Mix Ratio (volume):** 1A:1B
- **Pot Life (60 g):** 6–8 min
- **Viscosity:** Gel
- **Tack Free:** @ 20 mils 1½–2 hrs
- **Compressive Strength (ASTM D-695):** 7 day 10,000 psi
- **Tensile Strength (ASTM D-638):** 7 day 7,000 psi
- **Tensile Elongation (ASTM C-638):** 2–4%
- **Bond Strength (ASTM C-882):** Hardened to hardened 7 day 3,000 psi
- **Coverage:** One 8 fl. oz. cartridge will yield approximately 14 in³ of epoxy adhesive.

---

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Flexolith® Gel**

**Description:** A 2-component, 100% solids, low modulus, moisture insensitive epoxy structural adhesive system. Has a unique high modulus of elasticity. Gel-like consistency and an easy mix ratio of 1:1 = A:B. Fast setting provides high early strength. Insensitive to moisture before, during and after cure. Provides excellent adhesion to most structural materials. Low temperature cures as low as 40°F.

**Application:** Designed for use in epoxy mortar patching and repairs of vertical and overhead concrete.

**Applicable Standards:**
ASTM C-881-90 Type III, Grade 3, Class A & B.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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<tbody>
<tr>
<td>TAM 2GFLEXG</td>
<td>2 gal. unit, 24 lbs.</td>
</tr>
</tbody>
</table>

**Specifications:**
- Mix Ratio (volume): 1A:1B
- Pot Life: 4 hrs
- Compressive Strength (ASTM D-695): 5500 psi
- Tensile Strength (ASTM D-638): 2200 psi
- Tensile Elongation (ASTM D-638): 35%

- Coverage: 1 gal. yields 231 in³ of epoxy paste adhesive and grout. 1 gal. mixed with 1 gal. by loose volume of oven-dried aggregate yields approximately 346 in³ of epoxy mortar.

---

**Masco Hi-Mod Gel**

**Description:** A 100% solids, two component moisture insensitive epoxy structural adhesive system. Has a unique high modulus of elasticity. Gel-like consistency and an easy mix ratio of 1:1 = A:B. Fast setting provides high early strength. Insensitive to moisture before, during and after cure. Provides excellent adhesion to most structural materials. Low temperature cures as low as 40°F.

**Application:** When mixed with salt-free, kiln-dry silica aggregate will produce a sag-resistant mortar for both vertical and overhead patching of interior surfaces. Gel-like consistency is an excellent structural adhesive for bonding of mating or non-mating surfaces where the glue line will not exceed ¼". Recommended to grout anchor bolts, to seal cracks, and to set injection ports prior to injection grouting.

**Applicable Standards:**
Conforms to ASTM C-881-87, Type I and IV, Grade 3, Class B & C, AASHTO M-235-86.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>MS 2GHMG</td>
<td>2 gal. unit, 24 lbs.</td>
</tr>
</tbody>
</table>

**Specifications:**
- Mix Ratio (volume): 1A:1B
- Pot Life: 30 min
- Compressive Strength (ASTM D-695): 5500 psi
- Shear Strength (ASTM D-732): 3,500 psi
- Tensile Elongation: 3%
- Flexural Strength (ASTM D-790): 5,500 psi
- Bond Strength (ASTM C-882): 2,400 psi

- Coverage: 1 gal. yields approximately 231 in³ of epoxy paste. 1 gal. Hi-Mod Gel mixed with 1 gal. by loose volume of oven-dried aggregate yields approximately 370 in³ of epoxy mortar. Smooth surfaces at 12 ft²/gal at ½”. Rough surfaces at 6 ft²/gal at ¼”.

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
## INJECTION RESIN ADHESIVES

<table>
<thead>
<tr>
<th>TYPE</th>
<th>ASTM C-881 STANDARDS FOR EPOXY ADHESIVES</th>
</tr>
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<tbody>
<tr>
<td>I</td>
<td>FOR USE IN NON-LOAD BEARING APPLICATIONS FOR BONDING HARDENED CONCRETE TO HARDENED CONCRETE AND OTHER MATERIALS, AND AS A BINDER IN EPOXY MORTARS / CONCRETES.</td>
</tr>
<tr>
<td>II</td>
<td>FOR USE IN NON-LOAD BEARING APPLICATIONS FOR BONDING FRESHLY MIXED CONCRETE TO HARDENED CONCRETE.</td>
</tr>
<tr>
<td>III</td>
<td>FOR USE IN BONDING SKID RESISTANT MATERIALS TO HARDENED CONCRETE, AND AS A BINDER IN EPOXY MORTARS / CONCRETES USED ON TRAFFIC BEARING SURFACES, (OR SURFACES SUBJECT TO THERMAL OR MECHANICAL MOVEMENTS.)</td>
</tr>
<tr>
<td>IV</td>
<td>FOR USE IN LOAD BEARING APPLICATIONS FOR BONDING HARDENED CONCRETE TO HARDENED CONCRETE AND OTHER MATERIALS, AND AS A BINDER FOR EPOXY MORTARS / CONCRETES.</td>
</tr>
<tr>
<td>V</td>
<td>FOR USE IN LOAD BEARING APPLICATIONS FOR BONDING FRESHLY MIXED CONCRETE TO HARDENED CONCRETE.</td>
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<table>
<thead>
<tr>
<th>GRADE</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>LOW VISCOSITY, 1 - 500 CPS, WATER TO MOTOR OIL.</td>
</tr>
<tr>
<td>2</td>
<td>MEDIUM VISCOSITY, 2,500 - 10,000 CPS, SYRUP TO HONEY.</td>
</tr>
<tr>
<td>3</td>
<td>NON-SAG CONSISTENCY, 250,000 - 1,000,000 CPS, PEANUT BUTTER TO CAULKING.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CLASS</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>APPLICATION TEMPERATURE LESS THAN 40 F.</td>
</tr>
<tr>
<td>B</td>
<td>APPLICATION TEMPERATURE BETWEEN 40 - 60 F.</td>
</tr>
<tr>
<td>C</td>
<td>APPLICATION TEMPERATURE ABOVE 60 F.</td>
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### APPLICATIONS

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<thead>
<tr>
<th>CONDITION</th>
<th>PRODUCTS</th>
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<tbody>
<tr>
<td>STRUCTURAL REPAIR OF CRACKED CONCRETE, &lt; 1/4&quot;</td>
<td>DURALCRETE SLV</td>
</tr>
<tr>
<td>SMALL CRACKS &lt;1/16&quot;</td>
<td>DURALCRETE LV</td>
</tr>
<tr>
<td>LARGE CRACKS &gt;1/16&quot;</td>
<td>MASCO HI-MOD LV</td>
</tr>
<tr>
<td>LARGE CRACKS &gt;1/4&quot;</td>
<td>DURAL INJECTION GEL</td>
</tr>
<tr>
<td>GRAVITY CRACK SEALER</td>
<td>FINE CRACKS &lt;1/32&quot;</td>
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<tr>
<td>SURFACE CRACK SEALING PASTE (CONSULT GEL / PASTE EPOXY ADHESIVES)</td>
<td>FAST CURING</td>
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### PROPERTIES

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<th>TYPE</th>
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<th>CODE</th>
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<th>RATIO</th>
<th>CUR IN VOL</th>
<th>INJ. RESIN</th>
<th>LOOSE BROKE</th>
<th>DOWEL ADHES</th>
<th>CRACK SEALER</th>
<th>APP. LIFE</th>
<th>VIS. CPS</th>
<th>BOND</th>
<th>LIFE</th>
<th>PSI</th>
<th>INITIAL CURE</th>
<th>FINAL CURE</th>
<th>APPR. TEMP</th>
<th>APPEARANCE</th>
</tr>
</thead>
</table>
### Duralcrete® LV

**Description:** A low viscosity, 2 component, 100% solids, low odor, moisture insensitive epoxy resin compound. High strength. Provides load transfer. Virtually no odor. Tenacious bond. Deep penetration.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAM 3GLV</td>
<td>3 gal. unit, 36 lbs.</td>
</tr>
</tbody>
</table>

**Application:** Concrete crack injection, gravity feed horizontal crack repair, vertical anchor bolt grouting, and binder for interior horizontal concrete repairs.

**Applicable Standards:**
- ASTM C881-90, Type I & IV Grade 1, Class B & C.

**Coverage:** For anchoring, 1 gal. yields 231 in³ of grout. 1 gallon mixed with 3 gal. of oven dry sand will yield approximately 650 in³ of mortar. Coverage will vary depending on surface texture, porosity and temperature.

**Specifications:**
- 75°F
- Mix Ratio (volume): 2A:1B
- Pot Life: 40 min
- Viscosity: 300–500 cps
- Tack Free: 3–4 hrs

**Compressive Strength** (ASTM D-695):
- 1 day: 8,600 psi
- 7 days: 11,200 psi

**Tensile Strength** (ASTM D-638):
- 14 days: 7,125 psi

**Bond Strength** (ASTM C-882):
- 2 days (moist cure): 2,150 psi
- 14 days (moist cure): 2,550 psi
- 14 days (dry cure): 2,825 psi

**Heat Deflection** (ASTM D-648): 126°F

---

### Duralcrete® SLV

**Description:** A super low viscosity, 2 component, 100% solids, low odor, moisture insensitive epoxy resin compound. Deep penetrating. Tenacious bond to concrete. Provides load transfer. High modulus.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAM 3GSLV</td>
<td>3 gal. unit, 36 lbs.</td>
</tr>
</tbody>
</table>

**Application:** Injection of cracks in concrete, gravity feed of horizontal cracks, vertical anchor bolt grouting, binder for horizontal concrete repairs.

**Applicable Standards:**
- ASTM C-881-90, Types I and IV, Grade 1, Classes B and C.

**Coverage:** Coverage rates will vary depending on surface texture, porosity, and temperature. For anchoring, 1 neat gal. yields 231 in³ of grout. 1 gal. of Duralcrete SLV mixed with 3 gal. of oven dry sand will yield approximately 650 in³ of mortar.

**Specifications:**
- 75°F
- Mix Ratio (volume): 2A:1B
- Pot Life: 40 min
- Viscosity: 100–200 cps
- Tack Free: 2–4 hrs

**Compressive Strength** (ASTM D-695):
- 7 days: 11,200 psi

**Tensile Strength** (ASTM D-638):
- 14 days: 7,125 psi

**Tensile Elongation** (ASTM D-638): 2.3%

**Bond Strength** (ASTM C-882):
- 2 days (moist cure): 2,150 psi
- 14 days (moist cure): 2,550 psi
- 14 days (dry cure): 2,825 psi

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
### Fast Set Epoxy LV

**Description:** A 2 component, 100% solids, moisture insensitive epoxy resin compound also available in a convenient pre-packaged dual component cartridge kit. Features and benefits include rapid setting, high modulus, high strength, virtually no odor and moisture insensitivity.

**Application:** Fast turn-around epoxy injection, anchor bolt grouting, seal cracks, concrete repair, concrete adhesive, and low temperature applications.

**Applicable Standards:** ASTM C-881, Types I, IV; Grade 1.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Description</th>
<th>Application</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAM FSLV</td>
<td>8 fl. oz. single cartridge 24/case (includes nut and nozzle), 24 lbs.</td>
<td></td>
<td>Fast turn-around epoxy injection, anchor bolt grouting, seal cracks, concrete repair, concrete adhesive, and low temperature applications.</td>
<td>75° F</td>
</tr>
<tr>
<td>TAM TFSLV</td>
<td>22 fl. oz. dual cartridge, 12/case, 24 lbs. (nozzle sold separately)</td>
<td></td>
<td>Fast turn-around epoxy injection, anchor bolt grouting, seal cracks, concrete repair, concrete adhesive, and low temperature applications.</td>
<td>1A:1B</td>
</tr>
</tbody>
</table>

**Accessories**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Description</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAM NOZSQ</td>
<td>½” x 7” mixing square nozzle</td>
<td>Injection Ports are used in conjunction with epoxy resin injection systems which are capable of structurally rebonding (welding) cracks, delaminations and hollow planes in portland cement concrete and restoring the structural integrity of the crack to the monolithic part of the structure.</td>
<td>Flat T-Ports are used when surface mounting of port is determined to be appropriate application. Ports fit commonly used 1/4” quick connectors.</td>
</tr>
<tr>
<td>TCX M300XL</td>
<td>22 oz. manual cartridge gun</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TCX PPA300B</td>
<td>22 oz. pneumatic cartridge gun</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Specifications:**

- **Mix Ratio (volume):** 1A:1B
- **Pot Life (60 g):** 6–8 min
- **Viscosity:** 500 cps
- **Tack Free:** @ 20 mils 1½–2 hrs
- **Compressive Strength** (ASTM D-695): 7 day 10,940 psi
- **Tensile Strength** (ASTM D-638): 7 day 7,100 psi
- **Tensile Elongation** (ASTM D-638): 2–4%
- **Bond Strength** (ASTM C-882): Hardened to hardened 7 day 2,800 psi

**Coverage:** One 8 fl. oz. cartridge will yield approximately 14 in³ of epoxy adhesive. One 22 fl. oz. cartridge will yield approximately 40 in³ of epoxy adhesive.

---

### Injection Ports

**Description:** Injection Ports are used in conjunction with epoxy resin injection systems which are capable of structurally rebonding (welding) cracks, delaminations and hollow planes in portland cement concrete and restoring the structural integrity of the crack to the monolithic part of the structure.

**Application:** Flat T-Ports are used when surface mounting of port is determined to be appropriate application. Ports fit commonly used 1/4” quick connectors.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>WT/Ctn (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS IP</td>
<td>⅛” x 2”</td>
<td>3.0</td>
</tr>
</tbody>
</table>

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Dural® 50 LM**


<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>TAM 3G50LM</th>
<th>3 gal. unit, 30 lbs.</th>
</tr>
</thead>
</table>

**Application:** Bridge decks; parking decks; consolidation of porous and dusting surfaces; reduce water absorption; reduce chloride penetration; pressure injection; gravity feed hairline cracks.

**Coverage:** Coverage rates are approximate and for estimating purposes only. Surface temperature, texture, and porosity will determine actual material requirements.

**Slab Sealing:** 100–200 ft²/gal. for first coat for typical concrete surface. 150–300 ft²/gal. for second coat in cases of extensive cracking or high porosity.

**Crack Grouting:** Coverage will be determined by depth and length of cracks.

**Specifications:**
- **Mix Ratio (volume):** 2A:1B
- **Mixed Viscosity:** 80 – 120 cps
- **Gel Time (200 gms):** 35 min.
- **Tack Free:** 3 – 5 hrs
- **Tensile Strength (ASTM D-638):** 527 psi
- **Tensile Elongation (ASTM D-638):** 65%

---

**POLYQuick® FASTPATCH LV**

**Description:** A tough, zero VOC, 2 component urethane that sets quickly allowing for fast return to service. Features and benefits include high strength, ease of use, fast curing, excellent adhesion, low viscosity and cures at low temperatures.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>WV FPLV</th>
<th>22 fl. oz. cartridge</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>WV 1GFPLV</td>
<td>1 gal. unit</td>
</tr>
</tbody>
</table>

**Application:** Fast turn-around epoxy injection, anchor bolt grouting, seal cracks, concrete repair, concrete adhesive, and low temperature applications.

**Coverage:** One 22 fl. oz. cartridge will yield approximately 36.61 in³ of epoxy adhesive.

**Applicable Standards:**
- ASTM D-7234
- ASTM D-4258
- ASTM E-1907

**Specifications:**
- **Mix Ratio (volume):** 1A:1B
- **Pot Life (60 g):** 1-2 min
- **Viscosity:** 120 cps
- **Tack Free:** 3-4 min
- **Compressive Strength (ASTM C-579):**
  - 24 hour: 6,503 psi
- **Anchor Strength (ASTM E-488):**
  - 1/2" threaded: 10,101 lbf
  - #4 rebar: 7,800 lbf
- **Concrete Adhesion (ASTM D-4541):**
  - 100% substrate: 836 psi
- **Hardness (ASTM D-2240):**
  - Shore D: 78

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
## Adhesive Epoxy Liquids

<table>
<thead>
<tr>
<th>ASTM C-81</th>
<th>GRADE CLASS</th>
<th>CODE</th>
<th>PRODUCT</th>
<th>SIZE UNIT</th>
<th>RATIO</th>
<th>CUBE VOL</th>
<th>FRESH TO EXIST</th>
<th>LOOSE BOND</th>
<th>DOWEL ADHES</th>
<th>REBAR COAT</th>
<th>BINDER</th>
<th>MORTAR BINDER</th>
<th>APP LIFE</th>
<th>VIS</th>
<th>BOND LIFE</th>
<th>PSI</th>
<th>INITIAL</th>
<th>FINAL</th>
<th>APP TEMP</th>
<th>APPR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BONDING AGENT</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-</td>
<td>-</td>
<td>TAM 1GAC</td>
<td>DURALPREP AC</td>
<td>1 GAL</td>
<td>3 PART</td>
<td>231</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>NO</td>
<td>30-45 MIN SILICONE</td>
<td>2,700</td>
<td>10,000</td>
<td>3 HR</td>
<td>24 HR</td>
<td>45-90°F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>II</td>
<td>IV</td>
<td>2 BC MS 2GHM</td>
<td>MASCOBOND HI-MOD</td>
<td>2 GAL</td>
<td>1-1</td>
<td>462</td>
<td>YES</td>
<td>NO</td>
<td>YES</td>
<td>NO</td>
<td>YES</td>
<td>NO</td>
<td>30 MIN</td>
<td>2,500</td>
<td>2,400</td>
<td>10,000</td>
<td>2 DAY</td>
<td>4-14</td>
<td>40-90°F</td>
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</tr>
</tbody>
</table>

**MORTAR BINDER**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>GRADE</th>
<th>CLASS</th>
<th>CODE</th>
<th>PRODUCT</th>
<th>SIZE UNIT</th>
<th>RATIO</th>
<th>CUBE VOL</th>
<th>FRESH TO EXIST</th>
<th>LOOSE BOND</th>
<th>DOWEL ADHES</th>
<th>REBAR COAT</th>
<th>BINDER</th>
<th>MORTAR BINDER</th>
<th>APP LIFE</th>
<th>VIS</th>
<th>BOND LIFE</th>
<th>PSI</th>
<th>INITIAL</th>
<th>FINAL</th>
<th>APP TEMP</th>
<th>APPR</th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
<td>1</td>
<td>A,B</td>
<td>TAM 2G FLEX</td>
<td>FLEXOLITH 216</td>
<td>2 GAL</td>
<td>1-1</td>
<td>462</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>15 MIN</td>
<td>1,700</td>
<td>-</td>
<td>6,000</td>
<td>3-4 HR</td>
<td>7 DAY</td>
<td>40-90°F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>III</td>
<td>1</td>
<td>A,B</td>
<td>TAM 2G FLEXLY</td>
<td>FLEXOLITH 216 LV</td>
<td>1 GAL</td>
<td>2-1</td>
<td>231</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td>20 MIN</td>
<td>9,000</td>
<td>1,800</td>
<td>141</td>
<td>6,300</td>
<td>7 DAY</td>
<td>40-90°F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>III</td>
<td>1</td>
<td>A,B</td>
<td>MS FF</td>
<td>MASCO FASTPATCH</td>
<td>40 C U/F</td>
<td>3 PART</td>
<td>690</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>15-30 MIN</td>
<td>-</td>
<td>-</td>
<td>8,000</td>
<td>3-4 HR</td>
<td>7 DAY</td>
<td>40-90°F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IV</td>
<td>1</td>
<td>B,C</td>
<td>MS 2GHM LV</td>
<td>MASCOBOND HI-MOD LV</td>
<td>2 GAL</td>
<td>1-1</td>
<td>462</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td>30 MIN</td>
<td>500</td>
<td>2,300</td>
<td>2</td>
<td>140</td>
<td>10,000</td>
<td>2 DAY</td>
<td>7 DAY</td>
<td>40-90°F</td>
</tr>
<tr>
<td>IV</td>
<td>1</td>
<td>B,C</td>
<td>MS 2GLM</td>
<td>MASCOBOND LO-MOD</td>
<td>2 GAL</td>
<td>1-1</td>
<td>462</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>30 MIN</td>
<td>1,500</td>
<td>1,600</td>
<td>141</td>
<td>6,300</td>
<td>7 DAY</td>
<td>40-90°F</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**REBAR PRIMER**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>GRADE</th>
<th>CLASS</th>
<th>CODE</th>
<th>PRODUCT</th>
<th>SIZE UNIT</th>
<th>RATIO</th>
<th>CUBE VOL</th>
<th>FRESH TO EXIST</th>
<th>LOOSE BOND</th>
<th>DOWEL ADHES</th>
<th>REBAR COAT</th>
<th>BINDER</th>
<th>MORTAR BINDER</th>
<th>APP LIFE</th>
<th>VIS</th>
<th>BOND LIFE</th>
<th>PSI</th>
<th>INITIAL</th>
<th>FINAL</th>
<th>APP TEMP</th>
<th>APPR</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>TAM 1GAC</td>
<td>DURALPREP AC</td>
<td>1 GAL</td>
<td>3 PART</td>
<td>231</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>NO</td>
<td>30-45 MIN SILICONE</td>
<td>2,700</td>
<td>10,000</td>
<td>3 HR</td>
<td>24 HR</td>
<td>45-90°F</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ASTM C-81 Standards for Epoxy Adhesives

**TYPE:**
- **I:** For use in non-load bearing applications for bonding hardened concrete to hardened concrete and other materials, as a binder in epoxy mortars / concretes.
- **II:** For use in non-load bearing applications for bonding freshly mixed concrete to hardened concrete.
- **III:** For use in bonding skid resistant materials to hardened concrete, and as a binder in epoxy mortars / concretes used on traffic bearing surfaces. (Or surfactants subject to thermal or mechanical movements.)
- **IV:** For use in load bearing applications for bonding hardened concrete to hardened concrete and other materials and as a binder for epoxy mortars / concretes.
- **V:** For use in load bearing applications for bonding freshly mixed concrete to hardened concrete.

**GRADE:**
- **1:** Low viscosity, 1 - 500 CPS, Water to motor oil.
- **2:** Medium viscosity, 2,500 - 10,000 CPS, syrup to honey.
- **3:** Non-sag consistency, 2,500 - 10,000 CPS, peanut butter to caulking.

**CLASS:**
- **A:** Application temperature less than 40°F.
- **B:** Application temperature between 40 - 60°F.
- **C:** Application temperature above 60°F.

**Type Conditions Temperature Products**

- **BONDING AGENTS**
  - Cold Weather: Temp range 40 - 70°F
  - Warm Weather: Temp above 60°F
  - Extra Working Life: Temp range above 70°F

- **PATCHING CONCRETE / NON-SKID COATINGS**
  - Exterior: Temp range 40 - 90°F
  - Interior: Temp below 40°F

- **REBAR COATING**
  - Corrosion Inhibitor: Temp range 45 - 90°F

**Note:** This chart should be considered a guide only. Consult specifications sheets for complete technical, installation and surface prep procedures.

All testing performed @ 72°F.
Eucopoxy LPL MV  
(Long Pot Life Epoxy Adhesive)

**Description:** A 100% reactive, two component material designed as a moisture insensitive adhesive and binder with extended working time for numerous application needs. It consists of a white pigmented Part A and a black pigmented Part B. When these parts are combined, the resultant material is medium gray in color. This high modulus system is available in medium viscosity to provide a long pot life for applications which require longer working time than conventional epoxies. Eucopoxy LPL MV epoxy system can be used as an anchoring material for dowel bars and anchor bolts. A repair mortar can be made with this product by adding aggregate. Size, gradation and amount of aggregate will be determined by the application. The user is advised to consider the use of a pre-packaged mortar.

**Application:** Designed for coating, bonding toppings, anchoring and as a general adhesive. Bond fresh concrete to existing concrete. Grout bolts, dowels and rebar into concrete, stone and masonry. Fill joints and voids in masonry. Bonds concrete to dissimilar materials such as steel and wood. Excellent for coating rebar.

**Applicable Standards:**  
ASTM C 881-02, Types I, II, IV and V, Grade 2, Class C & F. It is suitable for use under ACI specifications 503.1, 503.2, 503.3 and 503.4. Complies with ASTM C 883 and ASTM C 884.

**Coverage Rates:**  
Applications: Eucopoxy LPL MV  
Bonding Toppings: 50 – 100 ft²/gal  
Coating: 110 – 135 ft²/gal  
Coverage rate of this product is highly dependent upon the concrete surface texture. The workability desired highly affects the amount of epoxy required.

### Specifications
- **Specifications:** 75° F
- **Mix Ratio** (volume): 2A:1B
- **Pot Life** (1 gal.): 55 mins
- **Viscosity:** 3,400 cps
- **Thin Film, Open Time:** 6 hrs

**Compressive Strength** (ASTM C 695):  
- 1 day: 5,000 psi  
- 3 days: 8,000 psi  
- 7 days: 10,000 psi  
- 28 days: 12,000 psi

**Tensile Strength** (ASTM D 638): 3,000 psi

**Flexural Strength** (ASTM D 790): 9,000 psi

**Bond Strength** (ASTM C-882):  
- 14 days: >2,000 psi

---

### Duralprep A.C.

**Description:** A 3-component, pre-proportioned, water based epoxy modified Portland cement bonding agent and anti-corrosion coating. Used as a bonding agent for placing fresh concrete to existing concrete and for repair and restoration of concrete surfaces. Contains a unique migratory corrosion inhibitor which protects reinforcement when used as an anti-corrosion coating for steel. Has a long open time, is non flammable, VOC compliant, and does not form a water vapor barrier after cure.

**Application:** Used as a bonding agent for fresh concrete to existing concrete, concrete repairs, and as an anti-corrosion coating for steel reinforcement. Can be used for exterior or interior, on grade or above grade applications.

**Coverage:** Coverage rates are approximate, and for estimating purposes only. Surface temperature, porosity, and texture will determine actual material requirements. One full kit of will cover approximately 60 ft². Test the area prior to application to determine effective coverage rates.

**As a bonding agent:**  
- 60–80 ft²/gal

**As an anti-corrosion coating:**  
- 60–80 ft²/gal/coat

2 coats recommended.

### Specifications
- **Specifications:** 75° F
- **Mix Ratio**: Pre-portioned Kit
- **Pot Life**: 30–45 min
- **Initial Set**: 2–3 hrs
- **Contact Time**: up to 24 hrs (depending on ambient temperature)

**Compressive Strength** (ASTM C-109):  
- 3 days: 5,100 psi  
- 7 days: 7,300 psi  
- 28 days: 10,000 psi

**Tensile Strength** (ASTM C-496):  
- 28 days: 600 psi

**Flexural Strength** (ASTM C-348):  
- 28 days: 1,280 psi

**Bond Strength** (ASTM C-882):  
- 7 days: 2,480 psi  
- 24 hr open time: 2,700 psi

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.  
**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. [See page 172-173 for more information.]
**BONDING AGENTS**

**Masco Hi-Mod**

**Description:** A 100% solids, 2-component, moisture insensitive epoxy resin system. Has a unique high-modulus of elasticity which allows for structural bonding of dry and damp materials free of hydrostatic pressure. High structural bonding/grouting adhesive. Easy mixing ratio of 1:1 for the two components. Excellent bond to damp surfaces, insensitive to moisture before, during and after cure. Fast setting; provides high early strength within 24 hrs. Cures as low as 40° F.

**Application:** Designed to bond fresh plastic concrete to structural sound hardened concrete. Excellent structural adhesive for bonding hardened concrete to hardened concrete and other structural materials. May be used as an epoxy mortar for patching spalls on dry or damp surfaces. Also used for grouting bolts, dowels, and pins.

**Applicable Standards:**
- ASTM C-881-90, Type I, II, IV, V; Grade 2, Class B & C, AASHTO M-235-86.

**Specifications:**
- Mix Ratio (volume): 1A:1B
- Pot Life: 30 min
- Viscosity: 3,500 cps
- Thin Film Open Time: 30 min
- Compressive Strength (ASTM D-695): 7 days 10,000 psi
- Tensile Strength (ASTM D-638): 7 days 7,000 psi
- Tensile Elongation (ASTM D-638): 2.5%
- Bond Strength (ASTM C-882):
  - 14 days 2,900 psi
- Heat Deflection (ASTM D-648):
  - 7 days 125° F

**Coverage:** 1 gal. yields 231 in³. 1 gal. covers approximately 80 ft² on a smooth surfaces and 50–75 ft²/gal. on rough surfaces.

---

**MORTAR BINDERS**

**Flexolith®**

**Description:** A 2-component, 100% solids, low modulus, moisture insensitive epoxy binder with properties which makes it suitable for use in applications where stress relief and resistance to mechanical and thermal movements are required. Formulated for low temperature applications or where rapid cure is required.

**Application:** Designed for use as an overlay for concrete floors, warehouses, loading docks, showrooms, etc.

**Applicable Standards:**
- ASTM C-881-90, Type III, Grade 1, Classes A and B; AASHTO M-235, Type III, Grade 1.

**Specifications:**
- Mix Ratio (volume): 1A:1B
- Pot Life: 15 min
- Viscosity: 1,700 cps
- Thin Film Open Time: 1 hr
- Compressive Strength (ASTM D-695):
  - 7 days 10,000 psi
- Tensile Strength (ASTM D-638):
  - 7 days 7,000 psi
- Tensile Elongation (ASTM D-638): 2.5%
- Bond Strength (ASTM C-882):
  - 14 days 2,900 psi
- Heat Deflection (ASTM D-648):
  - 7 days 125° F

**Coverage:** 1 gal. yields 231 in³. 1 gal. covers approximately 80 ft² on a smooth surfaces and 50–75 ft²/gal. on rough surfaces.

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
MORTAR BINDERS

Flexolith® LV
**Description:** A 2-component, 100% solids, low modulus, moisture insensitive epoxy binder with properties which makes it suitable for use in applications where stress relief and resistance to mechanical and thermal movements are required. Formulated for low temperature applications or where rapid cure is required.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAM 2GFLEXLV</td>
<td>2 gal. unit, 24 lbs.</td>
</tr>
<tr>
<td>TAM 10GFLEXLV</td>
<td>10 gal. unit, 240 lbs.</td>
</tr>
</tbody>
</table>

**Application:** Designed for use in epoxy mortar patching, highly filled underlayment, for repairs to concrete floors, bridge nose repairs, crack injection and crack sealing.

**Applicable Standards:**
ASTM C-881-90, Type III, Grade 1; AASHTO M-235, Type III, Grade 1.

**Specifications:**
- **Mix Ratio (volume):** 1A:1B
- **Pot Life:** 15 min
- **Viscosity:** 500 cps
- **Tack Free:** 2–4 hrs
- **Compressive Strength (ASTM D-695):** 3600 psi
- **Tensile Strength (ASTM D-638):** 2480 psi
- **Tensile Elongation (ASTM D-695):** 45%

**Coverage:** 1 gal. will yield 231 in³, 1 gal. mixed with 3 gal. of oven dry sand will yield approximately 650 in³.

Masco Fastpatch
**Description:** A 100% solids, 3-component, moisture insensitive, low modulus epoxy resin repair system. The resin binder is designed to have high elongation and flexible properties which makes it suitable for use in applications where resistance to impact, mechanical and thermal movements are required.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS FP</td>
<td>50 lb. unit, 36/pallet</td>
</tr>
</tbody>
</table>

**Application:** Use for a wide range of concrete repair and restoration. Use to repair concrete floors in warehouses, loading docks, parking decks and ramps, bridge decks and other areas where permanent repair resistance to impact, thermal and mechanical movement is required.

**Applicable Standards:**
ASTM C-881-90; Type III; Grade 1; Classes A, B for epoxy resin systems.

**Specifications:**
- **Mix Ratio:** Pre-portioned kit
- **Pot Life:** 15 min
- **Cure Time:**
  - Initial: 3–4 hrs
  - Final: 7 days
- **Compressive Strength (ASTM C-109 Mod):**
  - 4 hrs: 1,400 psi
  - 18 hrs: 7,000 psi
  - 3 day: 9,400 psi
  - 7 days: 9,800 psi

**Coverage:** 1 unit will yield approximately .40 ft³ or 690 in³. Applied at ¼” thickness, 1 kit will cover approximately 18–20 ft².

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. **See page 172-173 for more information.**
MORTAR BINDERS

Masco Lo-Mod
Description: A 100% solids 2-component moisture insensitive epoxy resin system. Has a unique lo-modulus of elasticity which allows for variations in stress and temperature. Easy mix ratio of 1:1 = A:B. Fast setting and provides high early strength within 24 hrs. Insensitive to moisture before, during and after cure. Provides excellent epoxy mortar for exterior repairs exposed to thermal changes. Cures as low as 40° F.

Application: Used as an epoxy mortar or a binder resin for skid-resistant broadcast overlays to withstand mechanical and thermal movement.

Specifications:
- Mix Ratio (volume): 1A:1B
- Pot Life: 30 min
- Viscosity: 1,500 cps
- Cure Time:
  - Initial: 4–6 hrs
  - Final: 7 days
- Compressive Strength (ASTM D-695):
  - 3 days: 7,300 psi
  - 7 days: 10,000 psi
  - 28 days: 14,000 psi
- Tensile Strength (ASTM D-638):
  - 28 days: 600 psi
- Elongation (ASTM D-638):
  - 7 days: 50%
- Bond Strength (ASTM C-882):
  - 14 days: 1,600 psi
- Coverage:
  - 1 gal. when mixed yields 231 in³. 1 gal. of resin when mixed with 3 gal. of loose aggregate will yield approximately 650 in³. As a broadcast binder, coat 40–50 ft²/gal. As a primer for epoxy mortar apply at the rate of 80–100 ft²/gal.

No. | Size
--- | ---
MS 2GLM | 2 gal. unit, 25 lbs.

REBAR PRIMERS

Duralprep A.C.
Description: A 3-component, pre-proportioned, water based epoxy modified Portland cement bonding agent and anti-corrosion coating. Used as a bonding agent for placing fresh concrete to existing concrete and for repair and restoration of concrete surfaces. Contains a unique migratory corrosion inhibitor which protects reinforcement when used as an anti-corrosion coating for steel. Has a long open time, is non flammable, VOC compliant, and does not form a water vapor barrier after cure.

Application: Used as a bonding agent for fresh concrete to existing concrete, concrete repairs, and as an anti-corrosion coating for steel reinforcement. Can be used for exterior or interior, on grade or above grade applications.

Specifications:
- Mix Ratio: Pre-portioned Kit
- Pot Life: 30–45 min
- Initial Set: 2–3 hrs
- Contact Time: up to 24 hrs (depending on ambient temperature)
- Compressive Strength (ASTM C-109):
  - 3 days: 5,100 psi
  - 7 days: 7,300 psi
  - 28 days: 10,000 psi
- Tensile Strength (ASTM C-496):
  - 28 days: 600 psi
- Flexural Strength (ASTM C-348):
  - 28 days: 1,280 psi
- Bond Strength (ASTM C-882):
  - 7 days: 2,480 psi
  - 24 hr open time: 2,700 psi

No. | Size
--- | ---
TAM 1GAC | 1 gal. kit, 18 lbs.

Questions? Call for Customer Service:
Oregon (800) 537-3407 ♦ Washington (800) 537-6216

MASONS SUPPLY COMPANY
Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.
Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
REBAR PRIMERS

7000 System Cold Galvanizing Compound

**Description:** A single package zinc rich coating. This coating contains 95% metallic zinc in the dry film to provide cathodic corrosion protection for iron and steel. Also excellent for the repair of worn or damaged galvanized steel. This product is not intended for use on rusted steel or previously coated surfaces.

**Application:** Apply only when the air and surface temperatures are between 32-100°F and the surface temperature is at least 5°F above the dew point. Abrasive blast clean steel requires two coats of coating. Use good quality natural or polyester bristle brush for touch-ups only. Roller is not recommended. Use Air-Atomized Spray or Airless Spray for application.

**Coverage:** Cover rate is approximately 310-440 sq. ft./gal.; based on wet to dry ratio. Coverage rates are approximate, and for estimating purposes only.

**Specifications:**
- **Solids By Weight:** 89.5%
- **VOC:** <500 g/l.
- **Dry Times:**
  - Tack-Free: 1/2 – 1 hour
  - Handle: 1 – 2 hours
  - Recoat: 12 hours
- **Flash Point:** 104°F

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPA CGC</td>
<td>1 Qt, 7 lbs.</td>
</tr>
</tbody>
</table>

Epoxy Rebar Paint (Green)

**Description:** Designed for the touch-up of rebar coating on the job site. Prevents rust and metal rust stains in concrete. Provides long lasting corrosion and chemical resistance. Dries to touch in just 15 minutes. Green color.

**Application:** Use when temperature is above 50°F and humidity is below 85% to ensure proper drying. Clean surface with suitable cleaner/degreaser and water. Rinse and allow to dry. Be sure to protect surrounding surfaces from overspray. Shake can for one minute after mixing ball is heard and intermittently thereafter. Hold can 10-12” from surface. Apply several light coats a few times apart to avoid drips and runs.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPA GRE</td>
<td>12 oz, 1.17 lbs.</td>
</tr>
</tbody>
</table>
**GENERAL PURPOSE ADHESIVES**

**GLUDown Construction Adhesive**
**Description:** High tack, high coverage and fast drying. Convenient, low mist for fast, easy application. High coverage and aggressive tack. Excellent spray control for uniform spray coat.

**Application:** Multi-use bond for MDF, wood, metal, plastics, Hi density foam and concrete. For permanently attaching foils, carpeting, lightweight foams, paper, plastics, cardboard, felt and cloth to painted or unpainted metals, wood and hardboard. Designed for reveal strips, forming brackets, chamfers, blockouts and general purpose.

**Coverage:** 17 oz. can yields approximately 200 Linear Feet per can (1-1/2” reveal) 100 Linear Feet per can (3” reveal)

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Size/Case</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP GDCAN</td>
<td>17 oz. can, 12/case</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP GD36</td>
<td>36 lb. canister</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GLUDown Foam Adhesive**
**Description:** High solids, high coverage adhesive. Fast drying formula helps speed assembly. High bond strength to insulation, for secure adhesion. Good heat and moisture resistance to help protect bonds.

**Application:** Designed for bonding most types of insulation, such as EPS expanded polystyrene, XEPS extruded polystyrene and fiberglass insulation. Does not dissolve EPS expanded polystyrene foam or XEPS extruded polystyrene foam. Bonds materials to itself as well as concrete, wood, metal, fabrics, glass and most plastics. One or two surface bonding capabilities.

**Coverage:** 17 oz. can yields approx. 100 ft²

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Size/Case</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP GDFOAM</td>
<td>17 oz. can, 12/case</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AP GDFOAM30</td>
<td>30 lb. canister</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**80 Spray Adhesive**
**Description:** Neoprene-based aerosol contact adhesive. Plasticizer resistance. High temp. resistance to 200° F. Fast drying; Fast bonding. Durable - high strength adhesive.

**Application:** Bond all types of rubber except EPDM. Bond most supported vinyl, leather. Adhere stainless steel panels, stiffeners, and metal kick plates. Adhere many plastics, laminate and wood products. Recommended for bonding ADEKA preformed waterstops.

**Coverage:** 24 oz. can yields = approx. 75 ft²

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Size/Case</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM 80</td>
<td>24 oz. can, 12/case, 13 lbs.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Hi-Strength 90 Spray Adhesive**
**Description:** High strength, fast contact-type citrus base adhesive. Only needs 1 minute of drying time.

**Application:** Fast contact strength buildup for many decorative laminates.

**Coverage:** 24 oz. can yields approx. 100 ft²

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Size/Case</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM CBC</td>
<td>24 oz. can, 12/case, 13 lbs.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Expanding Foam Sealant**

**Description:** Expanding foam sealant is a single component, moisture-cure, polyurethane foam sealant with a (H) CFC free propellant designed to fill gaps, cracks etc., and used to stop air infiltration.

**Application:** Expanding foam sealant will be tack free in 10 minutes and cures to a firm resiliency within 8 hours. However, too much wetness will interfere with adhesion. Can be used to stop air infiltration around:
- Doors
- Window frames
- Pipe penetrations

**Specifications:**
- **68° F**
- **Color:** Yellowish
- **Expanded Volume:** Free Rise
- **Density:** 1.6 lbs./ft³
- **Tack Free:** 10 min
- **Cuttable:** 45 min
- **R Factor (ASTM G-518):** 3.8-4.5

**Coverage:**
- **Can Size:**
  - 12 oz. can yield = 0.5 ft³
- **Bead Size:**
  - 3/8” = 12 oz. = 275 linear ft.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL QF</td>
<td>12 oz. can, 12/case, 13 lbs.</td>
</tr>
</tbody>
</table>

**Accessories**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL 8136</td>
<td>29 fl. oz. cartridge, 12/case, 20 lbs.</td>
</tr>
<tr>
<td>RL 8128</td>
<td>Applicator Tool</td>
</tr>
<tr>
<td>RL 8142</td>
<td>20 fl. oz. cleaner, 12/case, 20 lbs.</td>
</tr>
</tbody>
</table>

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**TriggerFoam™**

**Description:** A 1 part polyurethane expanding foam which sets into its final form by using moisture present in the air. When installing the foam, consideration should be given to the 2 fold expansion of the foam after it leaves the nozzle. The surface of the foam initially dries within 1-4 hrs and becomes fully cured in 12-15 hrs. Sets well on ordinary surfaces such as concrete, brick, metal, etc. Surfaces do not require preparation and can also be damp. After installation, it is recommended that a full 24 hrs elapse prior to scraping, sanding, staining or painting.

CFC free propellant. Flame retardant. Does not rot or deteriorate with age.

Polyurethane system. Contains no urea formaldehyde or PCBs.

Neutral odor.

**Application:** Dispensed through a special gun that allows the user to control the rate of flow as well as the size of the bead for more precise placement of the product, allowing it to be used in a wide variety of applications. Use it to fill, seal or insulate. It blocks drafts, stops leaks, saves energy, adheres to all types of construction material, deadens sound, acts as a buoyancy material. Once cured, controls radon and can be used in HVAC applications. Insulating uses: around window frames, sills, door frames floor/wall joints, electrical junction boxes, attics, refrigeration units and pipes, and air conditioning systems. Filling uses: breaches in walls, pipe penetrations in non-fire-rated walls, voids in concrete forms, Underground utility ductwork, and sound dampering.

**Applicable Standards:**
- Underwriters Laboratories - File Numbers R16754 and 9KX2
- DIN Std. 4102 Part 1, Section 6.2.5.2 - Test Certificates PZ IV/00-063 & PZ IC/00-068.

**Specifications:**
- **Tack Free:** 5-10 min
- **Cure Times:**
  - Initial: 1-4 hrs
  - Final: 12-15 hrs

**Coverage:**
- 1.4-1.6 ft² free foam/cartridge.
# Latex Bonding Agents

<table>
<thead>
<tr>
<th>Code</th>
<th>Product</th>
<th>Description</th>
<th>Size</th>
<th>Interior Surface</th>
<th>Exterior Surface</th>
<th>GP</th>
<th>Bonding Primer</th>
<th>Bonding Slurry</th>
<th>Color Consist</th>
<th>Approvals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCR 1GAB</td>
<td>ACRYLIC BOND</td>
<td>ACRYLIC</td>
<td>1,5 GAL</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>MS 1GAR</td>
<td>MASCOBOND AR</td>
<td>ACRYLIC</td>
<td>1,5 GAL</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>H 1GDARA</td>
<td>DARAWELD C</td>
<td>PVA</td>
<td>1,2,5 GAL</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>YES</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>MS 1GSBR</td>
<td>MASCOBOND SBR</td>
<td>SBR</td>
<td>1,5 GAL</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>PCR 1G100</td>
<td>P-100 PRIMER</td>
<td>CO-POLYMER</td>
<td>1 GAL</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>ASTM C-1059</td>
</tr>
<tr>
<td>MS 1GEVA</td>
<td>MASCOBOND EVA</td>
<td>CO-POLYMER</td>
<td>1,5 GAL</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>ASTM C-1059</td>
</tr>
<tr>
<td>WC 1GPW</td>
<td>PLASTER WELD</td>
<td>PVA</td>
<td>1,5 GAL</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td>ASTM C-932</td>
</tr>
<tr>
<td>WC 1GWC</td>
<td>WELD CRETE</td>
<td>PVA</td>
<td>1,5 GAL</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td></td>
</tr>
</tbody>
</table>

## Applications:

- **ADMIXTURE FOR PORTLAND CEMENT TO INCREASE PERFORMANCE**
- **BONDING PRIMER FOR GYPSUM PLASTER**

## Definitions:

"**NON RE-EMULSIFIABLE BONDING AGENT**" is used when the application is outside or inside or when comes into contact with moisture. These admixtures are mixed with Portland cement to create a bonding slurry and are scrubbed into the substrate with brushes immediately before the topping is applied. They are also used as an admix for Portland cement to increase bond, tensile, flexural strengths, and long term durability.

"**RE-EMULSIFIABLE BONDING AGENT**" is only used when the application is inside or not exposed to moisture. These bonding agents can lose bond and fail if exposed to moisture. However, these bonding agents can be allowed to dry to the touch and then they re-wet when fresh mortar or plaster is applied allowing more working time for the applicator.

## Types of Admixtures:

- ADMIX, BONDING SLURRY FOR PORTLAND CEMENT
  - ARCHITECTURAL FINISH: ACRYLIC BOND MASCOBOND AR
  - NORMAL FINISH: DARAWELD C MASCOBOND SBR
  - INTERIOR / EXTERIOR: P-100 MASCOBOND EVA
  - INTERIOR APPLICATION: PLASTER WELD
**Acrylic Bond**

**Description:** A non-re-emulsifiable architectural quality acrylic latex emulsion for interior or exterior use as a bonding agent admixture for concrete repair, leveling, grouts, thin sets and mortar beds or rubbing applications. Suitable for making repairs above and below grade. Improved bonding strength permits thin and permanent repairs when used properly.

**Application:** Use for concrete patching, topping, underlayments and leveling, overhead repairs, as a bond and strength improving admixture for surface repairs and rubbing mix. Use for plaster, stucco and tuckpointing. May be used in setting and grouting tile and stone and for setting beds. Use to make a bonding slurry for concrete work. Excellent in resisting ultraviolet light.

**Coverage:** Depending on the particular job application, 1 gal. of Acrylic Bond, 15 lbs. of cement and 15 lbs. of sand will cover 65 ft² @ 1/16” for bonding slurry.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR 1GAB</td>
<td>1 gal. pail, 4/case, 40 lbs.</td>
</tr>
<tr>
<td>PCR 5GAB</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
</tbody>
</table>

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**Daraweld-C**

**Description:** A bonding agent for concrete. When used as directed it will improve the bond between new to old, new to new. Simply mix with cement, sand and water. For interior or exterior use. Adheres to properly prepared concrete. Forms strong durable bond and withstands water exposure.

**Application:** Primarily intended for bonding new to old concrete in exterior or interior applications. Used in a wide variety of miscellaneous applications. These include bonding construction joints, prevention of cold joints in multiple pours, leveling of floors prior to secondary surfacing, skid proofing existing floors or finishing concrete block walls.

**Coverage:** 1 gal. of Daraweld-C used in the suggested bonding grout (mixture) will yield approximately .67 ft³. This is sufficient to cover an area of 130 ft² at 1/16” thickness or 65 ft² at 1/8” thickness. 1 gal. in a topping mix will yield approximately 1.8 ft³. This is sufficient to cover an area of 86 ft² at 1/4” thickness.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>H 3GDARA</td>
<td>3½ gal. pail, 35 lbs., 36/pallet</td>
</tr>
<tr>
<td>H 1GDARA</td>
<td>1 gal. pail, 4/case, 40 lbs.</td>
</tr>
</tbody>
</table>

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Mascobond AR**

**Description:** A non-re-emulsifiable, acrylic, latex bonding agent and admixture. Can be used as an admixture to enhance the performance properties of patching materials, mortars and cementitious coatings. Exhibits excellent resistance to freeze/thaw cycles and can be used for interior or exterior applications. Durable: increases tensile strength, flexural strength and chemical resistance over non-modified mortars. Curing: increases water retention properties. Excellent bonding agent: superior adhesion properties. Freeze/thaw resistance: increased resistance to dramatic climatic changes.

**Application:** Ideal for bonding new concrete to old concrete in interior or exterior applications. Mascobond AR is an acrylic polymer specifically designed for use with cementitious compositions such as patching materials, masonry coatings, stucco coatings and masonry mortars to increase chemical resistance and performance.

**Coverage:**

**Bonding Slurry:**
- 1 gal. Mascobond AR
- 15 lbs. cement
- 15 lbs. sand

Apply @ 1/16". Scrub material into the surface. Apply concrete or patch while slurry is still tacky. Coverage is approximately 65 ft².

**Admixture for patching materials, repairs and topping:**
- 2 gal. Mascobond AR
- 2 gal. water
- 94 lbs. portland cement
- 300 lbs. dry sand

Yield: 2.8 ft³ approx.

---

**Mascobond SBR**

**Description:** Mascobond SBR polymer bonding agent is a high solids butadiene rubber latex emulsion admixture. Classified by the American Concrete Institute as a non-re-emulsifiable bonding agent. Used to improve adhesion to properly prepared substrates. Also improves freeze-thaw durability, reduces premature drying, and increases both tensile and flexural strengths. Does not produce a vapor barrier.

**Application:** Designed for use as an integral bonding agent with cement based products in slurry bonding coats, concrete, and mortars.

**Coverage:** 1 gal. of Mascobond SBR polymer bonding agent as a bonding slurry with 15 lbs. of sand and 15 lbs. cement covers approximately 65 ft² at 1/16" on properly prepared surfaces. As an admixture for mortar or concrete, use 1 1/2-3 gal. of Mascobond SBR polymer bonding agent per bag of portland cement depending on type of application. As an admixture with a 90 lb. bag of premix, use 1–3 qt. depending on application.
Mascobond EVA

**Description:** A slightly re-emulsifiable, ethyl-vinyl acetate copolymer for use as a liquid bonding agent and admixture. Has bonding ability in dry film and provides a better wet bond than Acrylic. Also, it allows exterior use, increased water and alkali resistance. Considered less sticky, more workable and more versatile than acrylic bonders. Will re-emulsify once and will not re-wet. Can be used as both a bonder and an admixture in interior or exterior applications not subject to constant water immersion. Excellent bonding agent; superior adhesion properties. Workability: improved trowelability over acrylic products.

**Application:** An excellent primer for use with cementitious compositions because of its one-time re-emulsification ability. Ideal as an admixture with portland cement patches and mortars to increase adhesion, as well as flexural and tensile strength. Will bond to concrete, masonry and brick.

**Coverage:**
- Bonding agent for patching compounds: Brush apply at 200 ft²/gal.

**Bonding Slurry:**
- 1 gal. Mascobond EVA
- 15 lbs. cement
- 15 lbs. sand

Apply @1/16". Scrub material into the pre-dampened surface. Apply concrete or patch while slurry is still tacky. Coverage is approximately 65 ft².

**Applicable Standards:**
- ASTM C-1042 and ASTM C-1059 Type I.

**Coverage for patching compounds:**
- 2 gal. Mascobond EVA
- 2 gal. water
- 94 lbs. portland cement
- 300 lbs. dry sand

**Yield:** 2.8 ft³

---

P-100

**Description:** A ready to use, film forming, one time re-emulsifiable liquid bonding agent for concrete. This material, based on a new technology gives outstanding surface and integral bonding without moisture sensitivity. May be used inside or outside. Developed for use as a primer for our Flowcrete self-leveling material and is also used to prime surfaces before applications of Patchcrete. P-100 is an aqueous resin emulsion. It is a film forming co-polymer emulsion.

**Application:** Use as a primer for Flowcrete and Patchcrete. Used as a surface bonder to bond fresh cementitious materials such as concrete, stucco, gypsum, plaster, etc. To various surfaces including concrete, masonry, stone, brick, plaster or wood. May be used inside or outside.

**Coverage:** 1 gal. diluted with water will cover 300-350 ft², varies with surface porosity.

**Applicable Standards:**
- ASTM C-1059.

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**Tables:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 1GEVA</td>
<td>1 gal. pail, 4/case, 40 lbs.</td>
</tr>
<tr>
<td>MS 5GEVA</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCR 1G100</td>
<td>1 gal. pail, 4/case, 40 lbs.</td>
</tr>
</tbody>
</table>

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Plaster-Weld

**Description:** The original plaster bonding agent is a patented formulation incorporating polyvinyl acetate homo-polymer. Designed for interior use only. Color is pink (non-bleeding).

**Application:** High performance bonding of one-coat finish plaster and/or two and three coat work to concrete ceilings, walls, columns, beams and other structurally sound surfaces. To bond cement mortar beds to smooth concrete for installation of rigid foam insulation. Concrete, brick, block, ceramic tile and metals.

**Coverage:** Approximately 300 to 400 ft²/gal, depending upon method of application, temperature, porosity and texture of the substrate.

**Applicable Standards:**
Conforms to ASTM C-631; Military Specification, MIL-B-19235C(YD); General Services Administration Specification for Bond Adhesive; Corps of Engineers Specification CE-240.01.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WC 1GPW</td>
<td>1 gal. pail, 4/case, 40 lbs.</td>
<td></td>
</tr>
<tr>
<td>WC 5GPW</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
<td></td>
</tr>
</tbody>
</table>

Weld-Crete

**Description:** Weld-Crete, the original chemical concrete bonding agent, incorporates polyvinyl acetate homopolymer in the patented formulation. Can be painted on in a single application, 1–10 days prior to concrete placement. Use Weld-Crete’s open time to your advantage in bonding to concrete shear walls, where you need a time lapse between application on bonding agent, placement of reinforcing steel, placement of formwork and placement of concrete. Color is blue (non-bleeding).

**Application:** For exterior and interior use, Weld-Crete will bond new concrete, portland cement plaster, and cement mixes to structurally sound concrete floors, walls, columns, beams, steps and ramps. Also used for bonding setting beds for ceramic tile and for bonding portland cement plaster and stucco mixes; and to bond to such surfaces as brick, block, tile and metal.

**Coverage:** 200–300 ft²/gal, approximately, depending upon method of application, temperatures, porosity, and texture of the substrate.

**Applicable Standards:**
ASTM C-932; ASTM C- 631; Military Specification, MIL-B-19235C(YD); General Services Administration Specification for Bond Adhesive; Corps of Engineers Specification CE-240.01.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WC 1GWC</td>
<td>1 gal. pail, 14/case, 40 lbs.</td>
<td></td>
</tr>
<tr>
<td>WC 5GWC</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
<td></td>
</tr>
</tbody>
</table>
**Color Hardener**

**Description:** A premix, dry shake, colored concrete hardener. Used for coloring and hardening freshly placed concrete flatwork to produce an aesthetically pleasing pavement with a surface that is substantially harder and more wear resistant than regular concrete. This coloring method can be utilized for concrete flatwork applications (salt finishes, stamped finishes, broom finishes, rotary finishes, etc.). Extensive quality control measures insure uniformity of color and virtually eliminate color drifts. It is a blend of specially selected and graded hard aggregates, architectural cements, plasticizers and synthetic oxide pigments, produces a brilliant, streak-free, non fading, wear resistant surface.

**Application:** Color Hardener should not be mixed with other chemicals or altered in any way. Basic application is as follows:

- Estimate material and equipment needs before work begins.
- After concrete has been placed and screeded with a straight edge, a nonmetallic bullfloat should be used to “open” the concrete surface. A metal float may prematurely seal the concrete surface. Allow initial “bleed” water to surface and evaporate before applying the color hardener.
- Float the concrete slab open, keeping float blades flat to prevent “blistering.” Evenly distribute ⅔ of the color hardener to the prescribed area. Allow enough time for the color hardener to absorb moisture from the concrete. Proper absorption will be evident by an evenly dark color. Work the color hardener into the concrete slab surface in a consistent manner with a nonmetallic float. Do not add water to the concrete surface.
- Evenly distribute the remaining color hardener to the prescribed area. Allow enough time for the hardener to absorb moisture from the concrete. Work the remaining hardener into the concrete slab surface in a consistent manner with a nonmetallic float. Do not add water to the concrete surface.
- If no stamp pattern is required, begin finishing as soon as possible. The concrete should have no sheen and no water at the surface.
- If a stamp pattern is required, evenly distribute color release to the prescribed area. Use stamping tools in a consistent manner with even pressure to create the pattern in the concrete surface.

**Coverage:** Coverage requirements vary according to intended use and color. Minimum coverage is one 60 lb. pail/100 ft².

- **Dark and Medium Colors:** 60–80 lbs./100 ft² minimum
- **Medium and Light Colors:** 70–90 lbs./100 ft² minimum
- **Light Colors and White:** 80–120 lbs./100 ft² minimum

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**No.** | **Color** | **Size**
--- | --- | ---
PL HBU | Burgundy | 60 lb. pail, 36/pallet
PL HOS | Oceanside |
PL HRG | Rock Gray |
PL HSF | Sante Fe |
PL HTC | Terra Cotta |
Color Release Powder

**Description:** A dry blend of chemical powders and color pigments designed for use in the imprinting process to allow the clean release of texturing tools from the concrete surface. It also adds color variation to the textured surface, providing an attractive two-color look that is part of most stamped concrete installations. It provides excellent release for texturing tools. Color variation for textured concrete surfaces.

**Application:** Release Powder is hand broadcast evenly to the entire surface of freshly placed concrete when the concrete reaches the proper set for imprinting. It should remain in a dry state on the concrete and should not be worked into the surface, providing an attractive two-color look that is part of most stamped concrete installations.

**Coverage:** 800–1000 ft² per 30 lb. pail. Coverage rates vary with application technique, wind conditions and texture of the concrete prior to application.

<table>
<thead>
<tr>
<th>No.</th>
<th>Color</th>
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</thead>
<tbody>
<tr>
<td>PL RAB</td>
<td>Adobe Beige</td>
</tr>
<tr>
<td>PL RBL</td>
<td>Black</td>
</tr>
<tr>
<td>PL RB4</td>
<td>Burgundy</td>
</tr>
<tr>
<td>PL RJV</td>
<td>Java</td>
</tr>
<tr>
<td>PL RMG</td>
<td>Midnight Gray</td>
</tr>
<tr>
<td>PL RMO</td>
<td>Mocha</td>
</tr>
<tr>
<td>PL RMR</td>
<td>Mossy Rock</td>
</tr>
<tr>
<td>PL RRG</td>
<td>Rock Gray</td>
</tr>
<tr>
<td>PL RSS</td>
<td>Saddle Soap</td>
</tr>
<tr>
<td>PL RSF</td>
<td>Santa Fe</td>
</tr>
<tr>
<td>PL RTC</td>
<td>Terra Cotta</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 lb. pail, 36/pallet</td>
</tr>
</tbody>
</table>
ARCHITECTURAL CONCRETE

Integral Color

**Description:** High quality pure synthetic iron oxide pigments for use in coloring ready mixed and precast concrete. They contain no admixtures and are manufactured with the strictest quality control standards. They are fade resistant and economical. Colors are packaged in 1, 5, and 25 lb. disintegrating bags for exact yd³ meter dosing. Available in 25 standard colors. Custom colors are available on request. Resistant to UV light (except 8084 carbon black). Can be utilized for colored concrete flatwork applications, vertical concrete and precast concrete units.

**Application:** For integrally colored concrete and in highly visible concrete slab work such as driveways, patios, walkways, cart paths, curbings or athletic courts. Also used in freeway sound barriers, tilt-up building walls, precast applications, poured-in-place concrete structures, masonry and roofing products where a lightfast, weather resistant color result is necessary.

**Applicable Standards:** Meet or exceed ASTM C-979 standards when used at recommended dosages.

**Dosage:** ½–8 lbs./100 wt. cement. Consult color chart for rate.

**Ready Mix Batching:** The drum must be cleaned and approximately ⅔ of the mix water and ½ of the aggregates needed should be added to the drum. The proper combination of disintegrating bags or pre-weighed bulk should be added to the drum and allowed to mix at charging speed for 2–3 min or until bags break apart and pigment is distributed evenly. The ends of the value pack bags should be cut off before putting in the concrete truck or mixer. Add the balance of the ingredients (water, cement, aggregates and admixtures) and mix at charging speed for 8–10 min.

**Premix Batching:** After ½ the total batch has been added to the ready mix drum, the proper combination of disintegrating bags or pre-weighed bulk should be added. Add the remainder of the batch to the drum and agitate at charging speed until completely dispersed throughout the mix, about 8–10 min.

**Fiber Reinforced Concrete:** Fibers should be added after pigments have dispersed. Consistency of color of the cement, aggregates, slump, finishing techniques and curing methods are critical in achieving uniformity of color. A 4–5” slump is recommended. Required higher slumps should be using water reducing or plasticizing admixtures and not by adding water because this will adversely affect the color. The use of an approved cure is recommended for curing most new colored architectural concrete flatwork.

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**Table: Integral Color**

<table>
<thead>
<tr>
<th>No.</th>
<th>Color Reference</th>
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<tbody>
<tr>
<td>D 100</td>
<td>Utility Red</td>
</tr>
<tr>
<td>D 160</td>
<td>Brick Red</td>
</tr>
<tr>
<td>D 1117</td>
<td>Tile Red</td>
</tr>
<tr>
<td>D 1395</td>
<td>Plum &amp; Granite Red</td>
</tr>
<tr>
<td>D 5084</td>
<td>Spanish Gold</td>
</tr>
<tr>
<td>D 5237</td>
<td>San Diego Buff</td>
</tr>
<tr>
<td>D 5447</td>
<td>Mesa Buff</td>
</tr>
<tr>
<td>D 5844</td>
<td>Western Gold</td>
</tr>
<tr>
<td>D 641</td>
<td>Flagstone Brown</td>
</tr>
<tr>
<td>D 677</td>
<td>Kahlua</td>
</tr>
<tr>
<td>D 6804</td>
<td>Cliffside Brown</td>
</tr>
<tr>
<td>D 61078</td>
<td>Adobe</td>
</tr>
<tr>
<td>D 8084</td>
<td>Carbon Black</td>
</tr>
<tr>
<td>D 860</td>
<td>Black</td>
</tr>
<tr>
<td>D 10134</td>
<td>Terra Cotta</td>
</tr>
<tr>
<td>D 3685</td>
<td>Green Slate</td>
</tr>
<tr>
<td>D 5376</td>
<td>Willow Green</td>
</tr>
<tr>
<td>D 6058</td>
<td>Rustic Brown</td>
</tr>
<tr>
<td>D 6059</td>
<td>Dark Brown</td>
</tr>
<tr>
<td>D 6130</td>
<td>Cocoa</td>
</tr>
</tbody>
</table>

**Size**

Available in 1 lb., 5 lb., and 25 lb. mix ready bags.

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Liquid Release**

**Description:** A parting agent used to keep stamping mats from sticking to concrete. It forms a barrier separating the mat from the concrete surface. It prolongs the life of almost any urethane stamping mat by decreasing the friction and wear between the mat and concrete surface.

<table>
<thead>
<tr>
<th>No.</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL LR</td>
<td>5 gal. pail, 50 lbs.</td>
</tr>
</tbody>
</table>

**Application:** Recommended for entrance and lobby floors; sidewalk and courtyard areas; commercial and shopping floors; pool and sun decks. Can be used for interior and exterior applications.

**Coverage:** 5 gal. pail provides coverage for approximately 700–800 ft² of concrete surface.

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**Miracote Protective Coating**

**Description:** Miracote Protective Coating (MPC) is a multi-use cementitious architectural topping designed to give the effect of color hardened concrete. It is a 2-component product that consists of a unique proprietary rubber-like polymer liquid which is mixed at the time of application with a proprietary cement-aggregate blend. The resulting combination, when applied by brush, trowel, squeegee, roller or spray, produces a tough, water-retardant coating with many desirable properties. Although extremely flexible, the material is notably abrasion resistant. It may be used in both interior or exterior use in the widest range of climates. It restricts water penetration and salt attack. It is available in natural gray and white; however, it may be integrally pigmented in a wide range of additional colors. It may also be antiqued or chemical stained. The texture and coloration options are almost unlimited.

**Application:** General concrete restoration and beautification of: stadium bleachers and food concession areas; parking structures and automobile traffic surfacing; plaza and sidewalk resurfacing; after repair; designer retail flooring; entertainment environments requiring themed flooring; and restaurants, bars, casinos, etc.

**Specifications:**
- **Application Life:** 15 min
- **Recoat Time:** 1–4 hours
- **Open to Traffic:** 12–24 hours
- **Compressive Strength (ASTM C-109):** 2,400 psi
- **Tensile Strength (ASTM C-190):** 450 psi
- **Impact Resistance (Mil-D-3134):** Complies

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC 7011</td>
<td>Gray</td>
</tr>
<tr>
<td>MC 7013</td>
<td>White</td>
</tr>
<tr>
<td>Size: 55 lb. bag, 54/pallet</td>
<td></td>
</tr>
<tr>
<td>MC 7012-50</td>
<td>Gray, smooth</td>
</tr>
<tr>
<td>MC 7014-50</td>
<td>White, smooth</td>
</tr>
<tr>
<td>Size: 50 lb. bag, 54/pallet</td>
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</tr>
<tr>
<td>MC 7010</td>
<td>5 gal. pail, 50 lbs., 48/pallet</td>
</tr>
<tr>
<td><strong>Color Pack</strong></td>
<td>1 per 5 gal. admix typical</td>
</tr>
</tbody>
</table>

**Coverage:** 2 bags of MPC regular powder mixed with 5 gal. liquid admixture will cover approximately 225–250 ft²/coat @ 1/16” (2 coats recommended).

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**Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.**

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
ARCHITECTURAL CONCRETE

Liquid Black

**Description:** ComoBlack is an integral coloring agent for concrete made from carbon black. Supplied in liquid form, it may be added to portland cement mixes to darken concrete or mortar. A wide range of shades from light grey to black are obtainable.

<table>
<thead>
<tr>
<th>No.</th>
<th>Color Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC 1GLB</td>
<td>1 gal. pail, 4/case, 40 lbs.</td>
</tr>
</tbody>
</table>

**Dosage:** Used at rate from 1–4 qt. per sack of cement.

Mirastain II

**Description:** Designed to color surfaces of many poured-in-place construction materials. It is a combination of high-grade pigment dispersion, co-polymer, in a water-based carrier concentrate solution specifically formulated to penetrate concrete, masonry, and polymeric cementitious surfaces to provide color tinting or staining of the surface. It may be pigmented from ½-8% colorant by volume depending on desired look and concentration of the colorant. Designed to accept water based acrylic and acrylic in solvent sealers. Standard in a clear tint base.

**Application:** Recommended for use over self-leveling systems, concrete, masonry, and polymer modified cementitious substrates when a flat Architectural accent color is desired. Provides a vibrant, translucent color tint that transforms any surface into an Architectural accent to enhance intricate designs and decor. It will deliver varied results over many types of substrates due to differences in density and color of cements and other ingredients used in substrate mix design. For added diversity, it can be applied over integrally colored substrates providing limitless Architectural accent color or variegation.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>MC 7609-1</td>
<td>⅔ gal. short filled pail, 4/case, 40 lbs.</td>
</tr>
<tr>
<td>MC 7609</td>
<td>3 gal. short filled pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>PO 1GIPA</td>
<td>1 gal. pail Isopropyl Alcohol, 4/case, 40 lbs.</td>
</tr>
<tr>
<td>Color Pack:</td>
<td>MC LIP _ _ _ (Color)</td>
</tr>
</tbody>
</table>

**Specifications:**

- **Drying Time:** Estimate minimum 4-6 hours before Sealer application
- **Coverage:** Application rate varies depending on application technique, desired antique effect and substrate; 200-400 sq ft per gallon.
- **Mix Ratio:** Add ⅔ gallon of Isopropyl alcohol to each short filled gallon unit. Add 2 gallons isopropyl alcohol to each short filled 5 gallon pail. Add ColorPax-LIP to desired ratio.

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Acid Stain

Description: A single component coloring solution of acidic metallic ion particles (acid stain), which reacts with minerals that exist in newly cured or existing concrete, penetrating the very top layer of the concrete surface with color that will not chip, crack or peel. The resulting effect creates a colored translucent, variegated and sometimes marbleized effect. Considerable variations of color and tone normally result from the application of Acid Stain. Acid stains may give you a unique look and visual character that cannot be achieved using conventional polymer or pigment type stains. This is due to the acid reacting individually with each substrate depending on its cement content, age, porosity and the manner in which hydration took place.

Application: Acid may be used in a wide range of environments interior and exterior on almost any cementitious surface, whether it be gray or color hardened concrete, stamped or textured concrete, micro-toppings or overlays. It can be used as an entire surface colorant or just as an accent border or detail. It may also be used on either old or existing substrates. Typically it is used as flooring in restaurants and food service areas, bars, hotels, casino’s, retail stores, malls, art studios, movie theaters, walkways and anywhere architectural concrete is desired. Acid stain may also be used as a means to color poured concrete smooth or with form liner, tilt-up wall, stone face plaster, GFRC and faux rock.

Existing, Older Concrete: Existing or old concrete must be completely clean and penetrable. Pressure wash or scrub to remove dirt. Sandblast concrete that has been previously coated with liquid curing materials, paints, and coatings. If the chemical stain does not react on dense, hard-troweled floors, open the surface by light sandblasting or terrazzo grinding. After rinsing and drying, inspect and test the surface for penetrability.

Manual Application For Small Areas: Use a professional grade acid resistant brush, with uncolored nylon bristles of medium stiffness that has the ability to hold liquids. Transfer the stain solution to the surface and immediately scrub in with a brush. Note: Do not use push brooms, mops or rotary floor machines for applying stains. Containers used for transferring material must be acid resistant none leaking, such as plastic pails (do not use metal container).

Scrub the stain solution into the surface using a circular figure eight motion keeping the brush in contact with the concrete and in continuous motion. Gradually spread the solution until all fizzing-action ceases. Brush solution back over the section just treated.

Neutralize: After the final application has remained on the surface for a minimum of four hours, remove all residue by wet scrubbing with a detergent, then rinse until the water is completely clean. Neutralize surface with a diluted solution of 1 pint ammonia to 5 gallons clean water - followed by a thorough rinsing with clean water. Caution: Check the pH of the surface using a litmus strip or pH pencil. It should be in the range of 10-13 pH.

Coverage: 200-400 ft²/gal/per application. Color and coverage will vary depending on porosity, texture, and age of concrete. Minimum 2 applications are normally required. 1 application may reach desired finish.

Cleaning of Flat Work: Use a heavy-duty rotary floor machine that operates at approx. 175 rpm and is equipped with a brush or with a pad-driver. Use a suitable commercial detergent, bristled brush or janitorial pad on standard concrete (however take care as not to catch or scar the surface with too aggressive brush or pad).

Neutralize: After the final application has remained on the surface for a minimum of four hours, remove all residue by wet scrubbing with a detergent, then rinse until the water is completely clean. Neutralize surface with a diluted solution of 1 pint ammonia to 5 gallons clean water - followed by a thorough rinsing with clean water. Caution: Check the pH of the surface using a litmus strip or pH pencil. It should be in the range of 10-13 pH.

Coverage: 200-400 ft²/gal/per application. Color and coverage will vary depending on porosity, texture, and age of concrete. Minimum 2 applications are normally required. 1 application may reach desired finish.

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Mirastamp

Description: Mirastamp is a multi-use thin section, poured in place, cementitious architectural decorative topping designed to give the appearance of textured stamped concrete. A multi-component product, Mirastamp consists of a unique proprietary rubber-like liquid, which is mixed at the time of application with a proprietary cement-aggregate blend and spread over a proprietary liquid polymer blended primer.

Mirastamp powder is white in color, however, it is available in our standard colors when integrally pigmented with our ColorPax-LIP liquid pigments pack. Mirastamp may also be antiqued or chemically stained, the texture and coloration options for Mirastamp are almost unlimited.

Application: Produces a wide range of architectural paving finishes, such as random stone, ashlar slate, European fan, cobble stone, and seamless texturing surfaces like roman slate, sand stone and rough stone. Many existing available stamps may be used with little or no modification from traditional stamping techniques. Mirastamp may be used anywhere conventional floor coverings such as tile; marble, carpet and slate are used horizontally over concrete.

Specifications: Application Life: 5 min
Set Time: Initial cure 24 hrs
Final cure 3 days
Compressive Strength (ASTM C-109): 4,200 psi
Flexural Strength (ASTM C-580): 2,415 psi
Thermal Shock (ASTM D-1211): Good
Water Absorption: 3.41%
Coverage: 1 gal. Mirastamp Liquid mixed with 1 bag Mirastamp Powder yields approximately 18 ft² at a ¼” thickness.

Mirastamp Primer: Prime concrete with concentrated Mirastamp admix. Covers approximately 200 ft².

ColorPax-LIP

Description: ColorPax-LIP (Liquid Integral Pigment) is a low VOC formulated coloring dispersion that is mixed with the liquid polymer component of cementitious base coats. Creates a homogenous coloration dispersed in liquid polymers. Materials incorporating ColorPax-LIP deliver a full depth color that is colorfast, resistant to ultraviolet degradation and is not subject to photo-induced deterioration. Available in all standard colors.

Application: It is designed for use in Mirastamp liquid polymer and (MPC) multipurpose coating admix to produce accent coloration in Overlay Mirastamp, Microtopping and Pool Deck topping applications. It can also be used with Mirastain II.

Mix Ratio: Single Components
Note: It is very important to maintain consistency in color from mix to mix.

Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions.
Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
### Concrete Form / Surface Retarders

<table>
<thead>
<tr>
<th>Vertical Form Retarder</th>
<th>Product</th>
<th>Size</th>
<th>Qty</th>
<th>Use</th>
<th>Steam Cure</th>
<th>App Method</th>
<th>DRY Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC WALL(#)</td>
<td>ALTUS</td>
<td>5 GAL</td>
<td>24 W</td>
<td>WALLS</td>
<td>250-300</td>
<td>S,B,R</td>
<td>15 MIN</td>
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<tr>
<td>Form Retarder Undercoat</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>ACC 5GPCWB</td>
<td>PRECOTE WB</td>
<td>5 GAL</td>
<td>24</td>
<td>PRECAST</td>
<td>400-500</td>
<td>B,R</td>
<td>30 MIN</td>
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<table>
<thead>
<tr>
<th>Horizontal Spray Retarder</th>
<th>Product</th>
<th>Size</th>
<th>Qty</th>
<th>Use</th>
<th>Steam Cure</th>
<th>App Method</th>
<th>DRY Time</th>
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<td>ACC SLAB(#)</td>
<td>OPTIMUS</td>
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<td>24</td>
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<td>S</td>
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</tr>
<tr>
<td>MS 5GSE(R/D)</td>
<td>SPRAY ETCH REG OR DEEP</td>
<td>5 GAL</td>
<td>24</td>
<td>SLABS</td>
<td>NO 100-150</td>
<td>S</td>
<td></td>
</tr>
<tr>
<td>SK 5GRUGS</td>
<td>RUGASOL S</td>
<td>5 GAL</td>
<td>24</td>
<td>SLABS</td>
<td>NO 100-150</td>
<td>S</td>
<td></td>
</tr>
</tbody>
</table>

### Number Code Form Retarder:

<table>
<thead>
<tr>
<th>Code</th>
<th>Color</th>
<th>Type Finish</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>TAN</td>
<td>LIGHT ACID WASH FINEST SANDS</td>
<td>THIS CHART SHOULD BE CONSIDERED A GUIDE ONLY</td>
</tr>
<tr>
<td>03</td>
<td>WHITE</td>
<td>MEDIUM ACID WASH MEDIUM SAND TEXTURE</td>
<td></td>
</tr>
<tr>
<td>05</td>
<td>TEAL BLUE</td>
<td>SAND FINISH EXPOSURE COARSE SAND TEXTURE</td>
<td>CONSULT SPECIFICATIONS SHEETS FOR COMPLETE TECHNICAL, INSTALLATION AND SURFACE PREP PROCEDURES</td>
</tr>
<tr>
<td>25</td>
<td>ORANGE</td>
<td>MEDIUM SANDBLAST TEXTURE 1/4&quot;-3/8&quot; AGGREGATE</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>BLUE</td>
<td>DEEP SANDBLAST 3/8&quot;-1/2&quot; AGGREGATE</td>
<td></td>
</tr>
<tr>
<td>125</td>
<td>LIGHT GREEN</td>
<td>MEDIUM AGGREGATE FULL DEPTH EXPOSURE 1/2&quot; AGGREGATE</td>
<td></td>
</tr>
<tr>
<td>250</td>
<td>GRAY</td>
<td>X-LARGE AGGREGATE FULL EXPOSURE 3/4&quot;+ AGGREGATE</td>
<td></td>
</tr>
</tbody>
</table>

### Spray Retarder for Slabs:

- **Regular**
  - 3/8-1/2"
- **Deep**
  - 1/2-3/4"

### Exposed Aggregate

- **Conditions**
  - Light Etch
  - Deep Etch
  - Light to Deep Etch Available

### Products

- **Optimus #**
- **Rugasol S**
- **Altus #**
FORM RETARDERS

Altus

**Description**: High performance in-form retarder with excellent heat resistance. Altus is especially suited for insulated panels where moisture levels are critical. Available in different depths of etch. A test panel-simulating job conditions should be poured for proper grade selection.

**Application**: Thoroughly mix before application. Apply a single hiding coat of Altus retarder using a brush, roller, or airless sprayer at a rate of 250–300 sq.ft./gal.

**Coverage**: Approximately 250–300 sq.ft./gal.

<table>
<thead>
<tr>
<th>No.</th>
<th>Color</th>
<th>Recommended Aggregate Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC WALL25</td>
<td>Orange</td>
<td>Medium Sand Blast Texture 1/4”–3/8” Aggregate</td>
</tr>
<tr>
<td>ACC WALL50</td>
<td>Blue</td>
<td>Deep/Heavy Sand Blast Texture 3/8”–1/2” Aggregate</td>
</tr>
<tr>
<td>ACC WALL125</td>
<td>Green</td>
<td>Medium Aggregate Full Depth Exposure 1/2” Aggregate</td>
</tr>
<tr>
<td>ACC WALL250</td>
<td>Gray</td>
<td>X-Large Aggregate Full Exposure 3/4” + Aggregate</td>
</tr>
</tbody>
</table>

**Size**: 5 gal. pails, 50 lbs., 24/pallet

RETARDER UNDERCOAT

Precote WB

**Description**: An innovative water-based undercoat release for use with Altus Series In-Form retarders. Perfectly suited for architectural precast concrete of all types.

**Application**: Apply In-Form retarder Pre-Cote to the mold surface in a thin coat by brush or by roller at a rate of 400-500 sq.ft./gallon. Pre-Cote WB dries in 20-30 minutes depending upon the ambient temperatures and humidity. When dry proceed with the selected grade of Altus Series In-Form Retarder.

**Coverage**: Approx. 400 – 500 sq.ft./gal.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC SGPCWB</td>
<td>5 gal. pails, 50 lbs., 24/pallet</td>
</tr>
</tbody>
</table>

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning**: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**SPRAY RETARDERS**

**MASCO Spray Etch (Reg/Deep)**

**Description:** is an economical, easy-to-use method for producing beautiful exposed aggregate concrete flatwork with consistent results that is available in two strengths: regular (red color) and deep (blue color). It temporarily retards the setting of portland cement at the surface while concrete below the surface cures normally. The surface concrete can then be washed away, exposing the aggregate.

**Application:** Exposes aggregate on floor slabs, sidewalks, tilt-up and precast panels, or any normal horizontal concrete. Produces roughened bonding surfaces for subsequent concrete toppings. Roughens horizontal surfaces for construction joints in power plants, dams, and other civil engineering projects. Read datasheet for complete installation procedures.

**Coverage:** Covers approximately 100–150 ft²/gal.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Regular - Red</strong></td>
</tr>
<tr>
<td></td>
<td><strong>MS 5GSER</strong> 5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
<tr>
<td></td>
<td><strong>MS 55GSER</strong> 55 gal. drum, 550 lbs.</td>
</tr>
<tr>
<td></td>
<td><strong>Deep - Blue</strong></td>
</tr>
<tr>
<td></td>
<td><strong>MS 5GSED</strong> 5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
<tr>
<td></td>
<td><strong>MS 55GSED</strong> 55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

**Rugasol-S**

**Description:** A spray applied liquid that retards the surface mortar of concrete to expose the aggregate. A water thin, water soluble, nonflammable liquid. Green in color to assure a uniform coating.

**Application:** Apply on fresh plastic concrete to obtain: architectural finish on slabs by exposing color and texture of natural aggregate. Construction key joints by providing clean, rough surface to enhance both chemical and mechanical bond for next lift of concrete.

**Coverage:** 1 gal. covers approximately 150 ft²/gal. of freshly placed concrete.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>SK 1GRUGS</strong> 1 gal. pail, 4/case 40 lbs.</td>
</tr>
<tr>
<td></td>
<td><strong>SK 5GRUGS</strong> 5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
<tr>
<td></td>
<td><strong>SK 55GRUGS</strong> 55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Optimus

**Description:** Water-based, VOC compliant polymerized high performance top surface retarder that does not require time consuming and costly covering for protection. Available in grades from a light acid wash to a full exposure of aggregate. Perfectly suited for cast-in-place flatwork as well as the top surface of precast panels. Provides a wide variety of effects due to the comprehensive range of grades allowing for multiple finishes on the same concrete or within the same precast panel.

**Application:** Thoroughly mix before application. Screed concrete flat and finish as normal. When producing the micro finishes this process may require multiple passes using both floats and trowels to create a smooth and tight surface to achieve the desired results. After proper finishing apply the appropriate finish retarder after the evaporation of the initial bleed water. Apply using a low-pressure garden type pump sprayer (plastic preferred) at a rate of approximately 200 sq.ft./gal. until a hiding coat is achieved. Once dry, Optimus provides intermittent rain protection and does not require additional covering to ensure performance and reduce surface crusting.

**Coverage:** Approximately 200 sq.ft./gal.

---

<table>
<thead>
<tr>
<th>No.</th>
<th>Color</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC SLA801</td>
<td>Tan</td>
<td>Lite Acid Wash Finest Sands</td>
</tr>
<tr>
<td>ACC SLA803</td>
<td>White</td>
<td>Medium Acid Wash Medium Sand Texture</td>
</tr>
<tr>
<td>ACC SLA805</td>
<td>Teal Blue</td>
<td>Sand Finish Exposure Coarse Sand Texture</td>
</tr>
<tr>
<td>ACC SLA850</td>
<td>Blue</td>
<td>Deep Heavy Sandblast Texture 3/8&quot;-1/2&quot; Aggregate</td>
</tr>
<tr>
<td>ACC SLA125</td>
<td>Light Green</td>
<td>Medium Aggregate Full Depth Exposure 1/2&quot; Aggregate</td>
</tr>
</tbody>
</table>

**Size:** 5 gal. pails, 50 lbs., 24/pallet
### CURING & SEALING COMPOUNDS

<table>
<thead>
<tr>
<th>CODE</th>
<th>PRODUCT</th>
<th>SIZE</th>
<th>GLOSS FINISH</th>
<th>ASTM TYPE</th>
<th>CLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DW1000</td>
<td>DAVIS W-1000 CLEAR</td>
<td>2.5 GAL</td>
<td>LO C-309</td>
<td>-</td>
<td>300 400</td>
</tr>
<tr>
<td>MS 5GCSWB</td>
<td>MASCO CURE &amp; SEAL WB</td>
<td>5.55 GAL</td>
<td>LO C-309</td>
<td>-</td>
<td>200 300</td>
</tr>
<tr>
<td>TAM SGL150W</td>
<td>LUSTRE SEAL WB 150</td>
<td>5.55 GAL</td>
<td>LO C-309</td>
<td>-</td>
<td>200 250</td>
</tr>
<tr>
<td>DS 5G118</td>
<td>2-18 SAFE CURE &amp; SEAL</td>
<td>5.55 GAL</td>
<td>LO C-309</td>
<td>-</td>
<td>200 300</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CODE</th>
<th>PRODUCT</th>
<th>SIZE</th>
<th>GLOSS FINISH</th>
<th>ASTM TYPE</th>
<th>CLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 5GCS25</td>
<td>MASCO CURE &amp; SEAL 25</td>
<td>5.55 GAL</td>
<td>HI C-1315</td>
<td>I</td>
<td>300 400</td>
</tr>
<tr>
<td>MS 5GCS1315</td>
<td>MASCO CURE &amp; SEAL 1315</td>
<td>5.55 GAL</td>
<td>HI C-1315</td>
<td>I</td>
<td>300 400</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CODE</th>
<th>PRODUCT</th>
<th>SIZE</th>
<th>GLOSS FINISH</th>
<th>ASTM TYPE</th>
<th>CLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 5GCS25</td>
<td>MASCO CURE &amp; SEAL 25</td>
<td>5.55 GAL</td>
<td>HI C-1315</td>
<td>I</td>
<td>300 400</td>
</tr>
</tbody>
</table>

**ACRYLIC WATER BASE**

**ACRYLIC SOLVENT BASE**

- **MOISTURE RETENTION:**
  - WHEN TESTED TO ASTM C-156 SHALL RESTRICT THE LOSS OF WATER TO NOT MORE THAN 0.40 KG/M2 IN 72 HOURS, 100 F, 32% RELATIVE HUMIDITY.

- **SEALING PROPERTIES:**
  - SHALL ADHERE TO FRESHLY PLACED CONCRETE, SHALL ADHERE TO DAMP OR DRY HARDENED CONCRETE SURFACES, SHALL HAVE A CONTINUOUS FILM, SHALL NOT REACT DELETERIOUSLY WITH CONCRETE OR BE AFFECTED BY ALKALIES.

### APPLICATION SURFACES FINISH PRODUCTS

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>SURFACES</th>
<th>FINISH</th>
<th>PRODUCTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCHITECTURAL</td>
<td>LOW ODOR, SLOW DRY</td>
<td>DAVIS W-1000 CLEAR LUSTERSEAL WB 150</td>
<td></td>
</tr>
<tr>
<td>FOOTPATHS, DRIVEWAYS, SLABS</td>
<td>HIGH GLOSS, HIGH ODOR FAST DRY</td>
<td>MASCO CURE &amp; SEAL 25%, 1315</td>
<td></td>
</tr>
<tr>
<td>BROOM / TROWEL FINISH</td>
<td>LOW ODOR, SLOW DRY</td>
<td>J-18 SAFE CURE &amp; SEAL MASCO CURE &amp; SEAL WB LUSTERSEAL 150W</td>
<td></td>
</tr>
<tr>
<td>LIGHT VEHICLE TRAFFIC</td>
<td>HIGH GLOSS, HIGH ODOR FAST DRY</td>
<td>MASCO CURE &amp; SEAL 25%, 1315</td>
<td></td>
</tr>
<tr>
<td>BUILDING AND CONSTRUCTION</td>
<td>LOW ODOR, SLOW DRY</td>
<td>MASCO BIOKURE</td>
<td></td>
</tr>
</tbody>
</table>

* **HEAVY VEHICLE TRAFFIC:**
  - PENETRATING CURE / HARDENER, LOW ODOR
  - MASCOCARD
  - J-17 SURE HARD
  - DIAMOND HARD

* **HOT WEATHER OR WINDY CONDITIONS:**
  - USE EVAPORATION RETARDANT
  - CONFILM
  - EUCOBAR

* **TEST FOR COMPATIBILITY BEFORE INSTALLATION.**

* **NOTE:**
  - **Non-yellowing, Gardner Color Standard #1**
  - **Moderate yellowing, Gardner Color Standard #3**
  - **Severe darkening and yellowing**

* **SOLIDS CONTENT:**
  - MINIMUM OF 25%

* **APPLICATION TEMPERATURE BETWEEN 50-90 F**

* **CURE REQUIREMENTS:**
  - HOT WEATHER OR WINDY CONDITIONS
  - USE EVAPORATION RETARDANT
ACRYLIC EMULSION

J-18 Safe Cure & Seal

Description: A water based styrene acrylic co-polymer that offers a combination curing, sealing and dustproofing for freshly finished concrete surfaces. This product dries to produce a non-yellowing, durable, clear film on concrete. It is ideal for interior applications because it is free of noxious flammable fumes in solvent-based products. It is non-flammable, easy to clean up with water and has good chemical and stain resistance.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 5GJ18</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
<tr>
<td>DS 55GJ18</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

Application: Apply immediately after all surface water has disappeared and the surface cannot be marred. Use low pressure spray, roller or brush. Do not thin apply uniformly without puddles. Application of a second coat after the first coat has dried will provide a longer lasting, high gloss coating with improved water retention performance.

Applicable Standards:
Meets ASTM C-309, Type 1, Class B.

Specifications:
- 75° F
- Tack Free: 4 hrs
- Recoat Time: 12 hrs
- Light Traffic: 12 hrs
- Vehicle Traffic: 24 hrs
- Final Cure: 48 hrs

Coverage: For proper curing of freshly placed concrete, use J-18 at the rate of approximately 200 ft²/gal. For sealing dry, hardened concrete, use at the rate of approximately 300 to 400 ft²/gal, per coat depending on porosity. Two coats are recommended for best results.

Luster Seal® WB 150

Description: A water based styrene acrylic co-polymer that offers a combination curing, sealing and dustproofing for freshly finished concrete surfaces. This product dries to produce a non-yellowing, durable, clear film on concrete. It is ideal for interior applications because it is free of noxious flammable fumes in solvent-based products. It is non-flammable, easy to clean up with water and has good chemical and stain resistance.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAM 5GLS150W</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
<tr>
<td>TAM 55GLS150W</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

Application: Used exterior and interior on most horizontal and vertical concrete surfaces. Typically, applications include stamped concrete driveways, patios, garages and commercial buildings. Its low odor makes it ideal for indoor applications in offices, hospitals and schools. It offers outstanding resistance to dirt and attack by air pollutants.

Specifications:
- 75° F
- Tack Free: 4 hrs
- Recoat Time: 12 hrs
- Light Traffic: 12 hrs
- Vehicle Traffic: 24 hrs
- Final Cure: 48 hrs

Coverage:
Cure/seal new concrete: 150–200 ft²/gal
Seal/dustproof old concrete: 200–250 ft²/gal
2 coats recommended for better protection and uniform finish.

Applicable Standards:
Meets National AIM VOC Regulations, ASTM C309, Type 1, Class B.
**Mascocure Cure & Seal WB**

**Description:** Mascocure Cure & Seal WB is a water emulsion acrylic ready to use compound for curing, sealing, and dustproofing concrete. It is used to prevent the rapid evaporation of water from the surface of freshly placed concrete. It is also used as a sealing compound which will effectively seal out construction stains and reduce the cost of clean-up. Mascocure Cure & Seal WB complies with the VOC content limits as required by current air pollution control regulations on architectural coatings.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 5GCSWB</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
<tr>
<td>MS 55GCSWB</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

**Application:** On new freshly placed, moist concrete, recommend Mascocure Cure & Seal WB with spray immediately after bleed water has disappeared and the surface will not be marred by walking workman. If a second coat is desired, concrete should be cured minimum 7 days for best results. Old hardened concrete, apply by using commercial spray cans or power sprayers. Use a spray tip (Chapin 8002 tip) that produces 1/5 gallon per minute under 40 psi of pressure, in a fine fog pattern without spurts and dribbles to form a thin continuous film. Avoid puddling, brush or back roll them out. Old floors must be cleaned and allowed to dry overnight prior to application. All unsightly marks, stains, dirt and dust must be removed from existing concrete. If not they will be amplified by the transparent finish. Drying time for coating is at least 4 hours at 75°F, 12 hours is preferable. If a second coat is desired, allow first coat to dry overnight. Thin applications are more effective than a single thick coat.

**Applicable Standards:**
ASTM C-309 Type I, Class B and AASHTO M-148 Type 1, Class B.

<table>
<thead>
<tr>
<th>Specifications:</th>
<th>75°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tack Free:</td>
<td>4 hrs</td>
</tr>
<tr>
<td>Recoat Time:</td>
<td>12 hrs</td>
</tr>
<tr>
<td>Light Traffic:</td>
<td>12 hrs</td>
</tr>
<tr>
<td>Vehicle Traffic:</td>
<td>24 hrs</td>
</tr>
<tr>
<td>Final Cure:</td>
<td>48 hrs</td>
</tr>
</tbody>
</table>

**Coverage:** For proper curing of freshly placed concrete, use Mascocure Cure & Seal WB at the rate of approximately 200 ft²/gal. For sealing dry, hardened concrete, use at the rate of approximately 300 to 400 ft²/gal. per coat depending on porosity. Two coats are recommended for best results.

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Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalaion of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**ACRYLIC EMULSION**

### W-1000 Clear

**Description:** W-1000 is a water base modified acrylic copolymer emulsion that doubles as a membrane forming curing compound and a long lasting sealer, especially formulated for architectural colored concrete. W-1000 quickly dries to a semi-gloss, non-yellowing and durable barrier against moisture, oil, and most stains. It is a milky white liquid that sprays on blue and dries clear on any horizontal concrete surface. Its non clouding formula makes it especially suitable for use on exposed aggregate concrete. Check manufacturers application procedures and limitations before using.

**Application:** W-1000 has excellent sealing characteristics that can be used to seal concrete, concrete roof tile, natural and manufactured stone, mortar or stucco. When used as curing compound W-1000 forms a membrane barrier to prevent the rapid loss of water from surface of freshly placed concrete. This barrier retains the moisture so vital for proper cement hydration and the development of strength and hardness.

**Applicable Standards:**
Meets ASTM C-309, Type 1, Class B.

**Specifications:**
- Tack Free: 4 hrs
- Recoat Time: 12 hrs
- Light Traffic: 24 hrs
- Vehicle Traffic: 7 days
- Final Cure: 7 days
- Coverage:
  - Curing Compound: First Coat 200-300 ft²/gal, Second Coat 350-450 ft²/gal.
  - Sealer: First Coat 300-400 ft²/gal, Second Coat 400-500 ft²/gal.

**Coverage:**
Add 15 oz bottle to 5-gal container of sealer. Do not exceed more than 6 oz per gal of sealer.

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### SLIP RESISTIVE ADDITIVE

**Masco Surface Grip**

**Description:** MASCO SURFACE GRIP is a finely ground, slip resistant polymer additive designed specifically for use to improve the slip resistance of film forming sealers. MASCO SURFACE GRIP can be added to all MASCO and most other manufacturer's water and solvent based film-forming sealers. It is ideal for use on surfaces where water or moisture can accumulate such as garage floors, driveways, patios, walkways, and other smooth surfaces. Will improve slip-resistance and texture of film-forming sealers.

**Application:** May be used for exterior or interior applications. Allows for sprayer, roller and brush applications. MASCO SURFACE GRIP is compatible with all MASCO Cure & Seals, Acrylic Sealer, Hi-Gloss and Matte Finish Sealers. Spray application is recommended but smaller areas may be brushed. Do not re-roll wet areas. Prepare substrate and apply sealer in accordance with the manufacturers written instructions.

**Specifications:**
- Non-Hazardous
- Flash Point: >450° F

---

No. | Size
---|---
D W1000 | 2.5 gal. pail, 2/case, 30 lbs.
MS SG | 15 oz. bottle, 6/case, 15.5 lbs.

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.

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**Masons Supply Company**

Oregon (800) 537-3407 • Washington (800) 537-6216
Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville
**Masco Cure & Seal 1315**

**Description:** A clear compound for curing, sealing, hardening and dustproofing concrete. It is used to prevent the rapid evaporation of water from the surface of freshly placed concrete. It is also used as a sealing compound which will effectively seal out construction stains and reduce the cost of cleanup. Mascocure Cure & Seal is a clear, styrene acrylic copolymer.

**Application:** Can be applied to hardened concrete to seal, harden and dustproof the surface. When used for this application, two coats are recommended.

**Applicable Standards:** Meets ASTM C-1315, Type 1, Class A.

**Coverage:** For proper curing of freshly placed concrete, use Mascocure Cure & Seal at the rate of 300 ft²/gal. For sealing dry, hardened concrete, use at the rate of 300 to 400 ft²/gal/coat. Two coats are recommended for best results. (On exposed aggregate, coverage will be less).

**Coverage:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 5GCS1315</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
<tr>
<td>MS 55GCS1315</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

---

**Masco Cure & Seal 25% UV**

**Description:** A clear compound for curing, sealing, hardening and dustproofing concrete. It is used to prevent the rapid evaporation of water from the surface of freshly placed concrete. It is also used as a sealing compound which will effectively seal out construction stains and reduce the cost of cleanup. Mascocure Cure & Seal is a clear, styrene acrylic copolymer.

**Application:** Can be applied to hardened concrete to seal, harden and dustproof the surface. When used for this application, two coats are recommended.

**Applicable Standards:** Meets ASTM C-1315, Type 1, Class A.

**Coverage:** For proper curing of freshly placed concrete, use Mascocure Cure & Seal at the rate of 300 ft²/gal. For sealing dry, hardened concrete, use at the rate of 300 to 400 ft²/gal/coat. Two coats are recommended for best results. (On exposed aggregate, coverage will be less).

**Coverage:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 5GCS25UV</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
<tr>
<td>MS 55GCS25UV</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

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*Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions.  
Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.*
Concrete sealers are being used with increasing frequency in both exterior and interior applications. When designed for use in exterior applications, the primary function of a concrete sealer is to protect concrete from freeze/thaw damage and chloride induced corrosion of the reinforcing steel. For interior use, concrete sealers are applied to floor slabs to prevent dusting and absorption of liquid spills, and to make the surface easier to clean. The sealer products available today may be classified as either film-forming or penetrating.

**Film Forming-Sealers**

With film-forming sealers, penetration of durable concrete will be slight at best, with most of the product remaining on the surface to form a barrier. The ability of these products to effectively penetrate concrete is restricted by the relatively large molecular structure of the materials. The use of solvents, therefore, will not appreciably enhance penetration capabilities. In addition to sealing out water, these products also offer some protection against mild chemicals and prevent the absorption of grease, some oils and other liquid spills. Film-forming sealers will substantially reduce dusting under light traffic conditions. Penetration depths of as much as 1/8 in., depending on the density and finish of the concrete. Unlike film-forming sealers, the effectiveness of penetrants is not dependent upon the continuity of an exposed surface film.

Penetrants produce a durable sealing film embedded within the concrete itself that is reactively unaffected by abrasion or ultraviolet-induced deterioration.

The two most common penetrating sealers, the silanes and the siloxanes, are both derived from the silicone family. When catalyzed by moisture, these siloxanes react with silica available in concrete to form an interstitial, hydrophobic siloxane resin film that repels water without loss of vapor transmission properties.

Despite being very closely related, the two silicone-based materials have significant performance differences. Silane monomers are small molecules which have not yet reacted with other similar molecules to form polymer chains and require a substrate with a high pH. Siloxanes are produced when silane molecules are partially reacted to form a larger structure linking up two or three silane molecules and are not dependent on substrate pH. Because of this, siloxanes are ideal for treating brick, stucco and stone. Because of their very small molecular size, silanes will typically obtain deeper penetration and as a result are less subject to loss of effectiveness caused by abrasion or weathering. A consequence, however, of this very small molecular size is that the molecule is relatively volatile. The solids content in a finished silane product should be high enough to compensate for the loss of reactive material through evaporation during application and cure.

Siloxanes, because they are less volatile, generally offer good hydrophobic performance at lower initial cost than do silanes. However, for concrete surfaces subject to abrasive wear such as pavements and decks, treatment with a silane sealer will provide longer-lasting protection. In regard to surface texture and color, treatment with silane sealers typically cannot be visually detected. Siloxane products may slightly darken the treated surfaces.

**Penetrating Sealers**

The effectiveness of penetrating sealers is a result of their very small molecular size in comparison with urethanes or epoxies. These materials are able to infiltrate and coat the pores and capillary structure of concrete. Penetrating sealers may achieve penetration depths of as much as 1/8 in., depending on the density and finish of the concrete. Unlike film-forming sealers, the effectiveness of penetrants is not dependent upon the continuity of an exposed surface film.

Penetrants produce a durable sealing film embedded within the concrete itself that is reactively unaffected by abrasion or ultraviolet-induced deterioration.

The two most common penetrating sealers, the silanes and the siloxanes, are both derived from the silicone family. When catalyzed by moisture, these silicon materials react with silica in the pore of the concrete matrix. The reaction of silicate compounds and water produce a calcium silicate hydrate or tobermorite gel, already a primary binding property of hydrated portland cement. Liquid hardeners increase the concentration of tobermorite gel which increases the density, hardness and chemical resistance. The floor finish is enhanced by giving the floor a more polished look. A high sheen results when the treated floor is polished by mechanical means.

Concrete floors should be at least 7 to 14 days old before treatment because the concrete needs sufficient time to hydrate. Hydration increases the amount of lime available to react and form the tobermorite gel. In addition the waiting time allows the pores of dry so the hardener can penetrate deeper. Liquid floor hardeners are recommended for industrial and commercial floors, although they are not a direct replacement for a dry shake floor hardener. Consult Masons Supply for more information on which product should be used for your specific application.

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
### Sealing / Hardening Compounds

<table>
<thead>
<tr>
<th>Code</th>
<th>Product</th>
<th>Size</th>
<th>Unit</th>
<th>Type</th>
<th>Base</th>
<th>% Solid</th>
<th>Surf.</th>
<th>% Resist</th>
<th># App</th>
<th>1st SF/Gal</th>
<th>2nd SF/Gal</th>
<th>Seals</th>
<th>Harden</th>
<th>Chem Resist</th>
<th>Grafit Resist</th>
<th>Bird Resist</th>
<th>Initial Cure</th>
<th>Traffic Cure</th>
<th>Appr Temp</th>
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<tbody>
<tr>
<td>ACRYLIC EMULSION SEALER</td>
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<tr>
<td>TAM 55GLS300W</td>
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<td>WATER</td>
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<td>400</td>
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<td>-</td>
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<td>-</td>
<td>4 HR</td>
<td>24 HR</td>
<td>45-90F</td>
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<tr>
<td>ACRYLIC SOLVENT SEALER</td>
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<td>TAM 55GLS300</td>
<td>LUSTRE SEAL 300</td>
<td>5.55 GL</td>
<td>SOLV</td>
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<td>YES</td>
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<td>2</td>
<td>300</td>
<td>300</td>
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<td>-</td>
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<td>-</td>
<td>-</td>
<td>2 HR</td>
<td>24 HR</td>
<td>40-90F</td>
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<tr>
<td>MS 5GAS</td>
<td>MASCO ACRYLIC SEALER</td>
<td>5.55 GL</td>
<td>SOLV</td>
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<td>YES</td>
<td>CLEAR</td>
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<td>300</td>
<td>300</td>
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<td>-</td>
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<td>2 HR</td>
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<td>DURALKOTE 240</td>
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<td>-</td>
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<td>50-90F</td>
<td>NSF</td>
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<tr>
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<td>DURALTEX</td>
<td>3 GL</td>
<td>EPOXY</td>
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<td>GRAY</td>
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<td>75</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>6 HR</td>
<td>48 HR</td>
<td>50-90F</td>
<td>USDA</td>
<td></td>
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</tr>
</tbody>
</table>

| PENETRATING HARDENER |
| TAM 55GLLTH | TAMMOLITH | 5.55 GL | WATER | - | - | CLEAR | 2 | 200 | 300 | YES | YES | YES | NO | - | 4 HR | 24 HR | 40-90F |
| EU 55GDOH | DIAMOND HARD | 5.55 GL | WATER | - | - | CLEAR | 1 | 150 | - | YES | YES | YES | NO | - | 4 HR | 24 HR | 40-90F | USDA |
| MS 5GMMH | MASCO HARD | 5.55 GL | WATER | - | - | CLEAR | 1 | 150 | - | YES | YES | YES | NO | - | 4 HR | 24 HR | 40-90F | USDA |
| DS 5GJ17 | J-17 SURE HARD | 5.55 GL | WATER | - | - | CLEAR | 1 | 150 | - | YES | YES | YES | NO | - | 4 HR | 24 HR | 40-90F | USDA |

| SILANE / SILOXANE SEALER |
| MS 5GMS40 | MASCO SILANE 40% | 5.55 GL | SOLVENT | 40 | - | CLEAR | 1 | 75 | - | YES | - | YES | - | - | 12 HR | 12 HR | 40-90F |
| MS 5GMS12 | MASCO SILOXANE VOC 12% | 5.55 GL | WATER | 12 | - | CLEAR | 1 | 75 | - | YES | - | YES | - | - | 12 HR | 12 HR | 40-90F |
| MS 5GMS6 | MASCO SILOXANE VOC 6% | 5.55 GL | WATER | 6 | - | CLEAR | 1 | 75 | - | YES | - | YES | - | - | 12 HR | 12 HR | 40-90F |

### Applications:
- Sealing Concrete and Masonry
- Hardening Concrete Floors
- Chemical Resistance Protective Coatings

### Chart Diagram
- **Concrete**: Surface Film Gloss - Luster Seal 300
- **Exterior Sealer**: Penetrating Natural Finish - Masco Siloxane WB 6.12%
  - Masco Silane 40%
- **Interior Sealers**: Penetrating - Masco Hard
  - Sure Hard J-17
  - Diamond Hard
Luster Seal® WB 300

**Description:** A water-based sealing compound. It is resistant to yellowing from sunlight exposure, VOC compliant, non-flammable, and ready to use. Used as a sealer on concrete, exposed aggregate concrete, and other decorative concretes, it is designed to protect and give a semi gloss finish.

**Application:** Used exterior and interior on most horizontal and vertical concrete surfaces. Typically, applications include stamped concrete driveways, patios, garages, and other commercial buildings. Its low odor makes it ideal for indoor applications in offices, hospitals, and schools. It offers outstanding resistance to dirt and attack by air pollutants.

**Limitations:** Not for unsealed porous surfaces. Not recommended for exterior use. Surface can be slippery when wet.

**Specifications:**
- 75°F
- Tack Free: 1 hr
- Recoat Time: 2–4 hrs
- Light Traffic: 8–12 hrs
- Vehicle Traffic: 24 hrs
- Final Cure: 48 hrs

**Coverage:**
- Cure/seal new concrete: 300–400 ft²/gal
- Seal/dustproof old concrete: 300–400 ft²/gal
- 2 coats recommended for better protection and uniform finish.

**Applicable Standards:**
Meets ASTM C-1315 Type I, AASHTO M148 Type I USDA.

---

Final Coat

**Description:** A high solids acrylic polymer floor polish for gloss and durability. This unique formulation provides maximum scuff and heel mark resistant gloss for lower maintenance costs. Final Coat requires fewer coats than are needed with conventional lower solids products and stays glossy even after numerous scrubs. Provides stunning “wet-look” highlights to colored or stamped concrete floors.

**Application:** Recommended for use in malls, hotels, retail stores, hospitals, and schools. Final Coat can also be used on most conventional resilient floors (rubber, asphalt tile, vinyl, linoleum, and all types of composition tile).

**Use on:**
- Troweled, colored or stamped concrete
- Conventional resilient floors
- Concrete paver tiles
- Vitrified brick
- Glazed tile
- Terrazzo

**Limitations:** Not for unsealed porous surfaces. Not recommended for exterior use. Surface can be slippery when wet.

**Specifications:**
- 75°F
- Tack Free: 1 hr
- Recoat Time: 1 hr
- Light Traffic: 1 hr
- Vehicle Traffic: 2 hrs
- Final Cure: 12 hrs

**Coverage:**
- Concrete surfaces: 400–1000 ft²/gal
- 2 or more light applications are recommended to start. Additional coats offer added gloss and protection.

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Luster Seal® 300**

**Description:** A solvent-based, clear sealer and hardener for concrete. Non-yellowing, dustproofs, protects, decorates, reduces spalling, VOC compliant, easily cleaned, abrasion resistant. Provides glossy, "wet" look.

**Application:** Exterior and interior horizontal and vertical surfaces such as driveways, stamped concrete, showrooms, decorative concrete, patios, warehouse floors, garages, and exposed aggregate.

**Limitations:** Not recommended for pre-sealed surfaces or nonporous surfaces such as brick, ceramic tile, marble, granite, porcelain and terrazzo. Not intended for water immersion. Consult data sheet for complete information.

**Applicable Standards:**
- Meets ASTM C-1315-95, Type I
- V.O.C. Content: Less than 700 g/L.
- Complies with Federal V.O.C. standards for Curing and Sealing compounds. Do not thin or dilute.

**Specifications:**
- 75° F
- Tack Free: 1–2 hrs
- Recoil Time: 2–4 hrs
- Light Traffic: 4 hrs
- Vehicle Traffic: 12 hrs
- Final Cure: 24 hrs

**Coverage:**
- Cure/seal new concrete: 300–400 ft²/gal
- Seal/dustproof old concrete: 300–400 ft²/gal
- Exposed aggregate: 200–300 ft²/gal
- 2 coats recommended for better protection and higher gloss.

**No.** | **Size**  
--- | ---  
TAM 1GLS300 | 1 gal. pail, 6/case, 60 lbs.  
TAM 5GLS300 | 5 gal. pail, 50 lbs., 24/pallet  
TAM 55GLS300 | 55 gal. drum, 550 lbs.

---

**Masco Acrylic Sealer**

**Description:** A hi-gloss clear sealer for exterior vertical and horizontal concrete surfaces. It is an acrylic polymer that resists yellowing under exposure to sunlight with a fast dry solvent formula. This high solids sealer combines properties of adhesion and UV light resistance to provide a long-lasting, durable, water-repellent sealer. Must be applied to thoroughly cured and completely dry concrete. The application of 2 thin coats enhances the look of new and old cured concrete, bringing out the beauty of exposed aggregate. It is commonly referred to as a "wet look" sealer.

**Application:** Applied to cured concrete to protect surface from the damaging effects of freeze-thaw exposure, deicing chemicals and airborne contaminants. Applications include commercial and industrial floors, sidewalks, patios, and driveways. Protects against surface deterioration. Provides temporary resistance to surface penetration of salts, oils and other mild chemicals.

**Limitations:** Not recommended for pre-sealed surfaces or nonporous surfaces such as brick, ceramic tile, marble, granite, porcelain and terrazzo. Not intended for water immersion. Consult data sheet for complete information.

**Applicable Standards:**
- Meets ASTM C-1315-95, Type I

**Specifications:**
- 75° F
- Tack Free: 2 hrs
- Recoil Time: 2–4 hrs
- Light Traffic: 4 hrs
- Vehicle Traffic: 12 hrs
- Final Cure: 24 hrs

**Coverage:**
- Freshly Placed Concrete: 350–400 ft²/gal/coat
- Existing Concrete: 350–400 ft²/gal/coat
- 2 coats recommended for better protection and higher gloss.

**No.** | **Size**  
--- | ---  
MS 5GAS | 5 gal. pail, 50 lbs., 24/pallet
**Mascoseal Hi-Gloss**

**Description:** A Methacrylate cure and sealer developed specifically for exterior applications, including exposed aggregate and other architectural concrete surfaces. Mascoseal Hi-Gloss provides a clear non-yellowing protective coating that brings out the radiance and luster of all natural aggregate and preserves a long lasting, durable finish. Mascoseal Hi-Gloss is ideal for precast, architectural concrete, exposed aggregate slabs, walkways and walls.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 5GHG</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
</tbody>
</table>

**Application:** For exterior, vertical and horizontal concrete surfaces. It is applied to concrete to protect surface from the damaging effects of freeze-thaw exposure, deicing chemicals, and airborne contaminants. Applications include commercial floors, sidewalks, patios and driveways.

**Limitations:** Not recommended for pre-sealed surfaces or nonporous surfaces such as brick, ceramic tile, marble, granite, porcelain and terrazzo. Not intended for water immersion. Consult data sheet for complete information.

**Specifications:**
- **Tack Free:** 2 hrs
- **Recoat Time:** 24 hrs
- **Light Traffic:** 4 hrs
- **Vehicle Traffic:** 12 hrs
- **Final Cure:** 24 hrs

**Coverage:**
- Freshly placed concrete: 350-400 ft²/gal./coat
- Dry hardened concrete: 350-400 ft²/gal./coat

2 coats recommended for better protection and higher gloss. (On exposed aggregate, coverage will be less).

**Applicable Standards:**
- U.S.D.A. accepted
- V.O.C. Compliant

---

**Mascoseal Matte**

**Description:** A Methacrylate cure and sealer developed specifically for exterior applications, including exposed aggregate and other architectural concrete surfaces. Mascoseal Matte provides a clear non-yellowing protective coating that produces a subtle, satin “matte” finish that highlights the color and textures of surfaces without excessive shine. Also provides luster of all natural aggregate and preserves a long lasting, durable finish. Mascoseal Matte is ideal for precast, architectural concrete, exposed aggregate slabs, walkways and walls.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 5GMF</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
</tbody>
</table>

**Application:** For exterior, vertical and horizontal concrete surfaces. It is applied to concrete to protect surface from the damaging effects of freeze-thaw exposure, deicing chemicals, and airborne contaminants. Applications include commercial floors, sidewalks, patios and driveways.

**Limitations:** Not recommended for pre-sealed surfaces or nonporous surfaces such as brick, ceramic tile, marble, granite, porcelain and terrazzo. Not intended for water immersion. Consult data sheet for complete information.

**Specifications:**
- **Tack Free:** 2 hrs
- **Recoat Time:** 24 hrs
- **Light Traffic:** 4 hrs
- **Vehicle Traffic:** 12 hrs
- **Final Cure:** 24 hrs

**Coverage:**
- Freshly placed concrete: 350-400 ft²/gal./coat
- Dry hardened concrete: 350-400 ft²/gal./coat

2 coats recommended for best results. (On exposed aggregate, coverage will be less).

**Applicable Standards:**
- U.S.D.A. Accepted
- V.O.C. Compliant

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Duralkote® 240

Description: A 2 component, 100% solids epoxy based system designed for use as a wall and floor coating. It is flexible, yet offers excellent chemical and abrasion resistance, and has excellent adhesion to properly prepared surfaces. It produces a flexible, tile-like, easily maintained surface.

Application: Used as a high performance maintenance coating with superior aesthetic benefits for applications in clean rooms, laboratories, warehouse floors and many applications in chemical process and manufacturing plants. Ideal for use in truck/auto bay areas, food service plants, water treatment plants, breweries and all areas where easy clean up is essential.

Applicable Standards: Duralkote 240 light gray after cure is approved for contact with potable water. Complies with the requirements of ANSI/NSF Standard 61 for use on potable water tanks.

Specifications:
- Mix Ratio (volume): 2A:1B
- Tack Free: 4–6 hrs
- Viscosity: 3,000–5,000 cps
- Tensile Strength (ASTM D-638): 1,800–2,000 psi
- Compressive Strength (ASTM D-695): 4,500–5,500 psi
- Tensile Elongation (ASTM D-638): 15–25%
- Coverage: Coverage rates are approximate, and for estimating purposes only. Surface temperature, porosity, and texture will determine actual material requirements: 100–150 ft²/gal/coat. 2 coats recommended.

Duraltex

Description: A high gloss, moisture insensitive, 100% solids, 2 component epoxy floor binder. Versatile coating, broadcast floors, chip floors, and slurry/broadcast. User friendly. Low odor. Chemical resistant.

Application: Warehouse and garage floors; manufacturing plants and workshops; educational facilities and hospitals; production rooms and loading docks; kitchens, lavatories, and showers.

Applicable Standards: USDA compliant.

Broom Seed Method:
- Base Coat: 75–100 ft²/gal
- Aggregate: 1–1½ lbs/ft²
- Top Coat: 50–75 ft²/gal

Specifications:
- Mix Ratio (volume): 2A:1B
- Pot Life: 45 min
- Tack Free: 4–5 hrs
- Recoat Time: 12 hrs
- Viscosity: 3,000–5,000 cps
- Tensile Elongation (ASTM D-638): 15–30%
- Coverage: Coverage rates are approximate, and for estimating purposes only. Surface temperature, porosity, and texture will determine actual material requirements.

No. | Size
---|---
TAM 2G240LG | 2 gal. unit, light gray, 24 lbs.
TAM 3GDLG | 3 gal. unit, light gray, 36 lbs.

Questions? Call for Customer Service:
Oregon (800) 537-3407 ♦ Washington (800) 537-6216

MASON'S SUPPLY COMPANY
Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville

+ 3350 Sealing / Hardening Compounds

Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions. Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Tammolith®**

**Description:** A water-based, chemically active, hardening and dustproofing agent for new or aged concrete floors. It is a colorless solution of fluorosilicate hardening agents and P-15, a powerful wetting and penetrating agent. The hardening agents react with the free lime in concrete to deposit dense, chemically resistant minerals which seal and harden the concrete surface. The hardened surface resists penetration by dust, oil, grease, and other contaminants, improving durability while reducing cleaning and maintenance costs.

**Application:** Formulated for use on cured concrete floors to provide increased wear resistance, increased resistance to chemical attack and to minimize penetration of oil and grease. It is particularly effective on warehouse floors, aircraft hangers, garages, chemical installations, hospitals, breweries, industrial plants and computer rooms under false floors. It may be used on new concrete which is at least 10 days old (28 days is preferred) and on older concrete. Steel-troweled floors treated with it will, over time, develop a distinctive polished sheen which will resist staining agents resulting in floors which are easy to clean and maintain.

**Applicable Standards:**
Complies with Veterans’ Administration master specification 601, section 4 for liquid chemical hardeners. It is water based and contains no VOC materials.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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<tbody>
<tr>
<td>TAM SGLITH</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>TAM 5SGLITH</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

**Mixing Instructions:**
- **1st coat:** 1 part concentrate: 1 part water
- **2nd coat:** 1 part concentrate: 2 parts water

**Coverage:** First coat is 200 ft²/gal. Second coat (if necessary) is 300–400 ft²/gal.

---

**J-17**

**Description:** A colorless, odorless solution of specialized reactive chemicals which penetrate concrete surfaces to seal, density and harden them. Water-based and environmentally safe to use. There are no odors or fumes. Because it penetrates the surface and becomes an integral part of the substrate, it does an excellent job of sealing and hardening. As a result it will help prevent efflorescence and the leaching of lime. Suitable for both interior and exterior applications. Seals, hardens and dustproofs. Resists black rubber tire marks on floors. Lasts longer than other floor coatings like epoxies, urethanes, etc. Develops a more polished look with age. USDA approved for incidental food contact.

**Application:** A premium product for the hardening, dustproofing and sealing of concrete. Excellent for concrete floor applications where long term resistance to dusting, black rubber tire marks, chemicals and water are important. Ideal applications include but are not limited to, industrial plants, warehouses, schools, factories, hospitals, malls, water and sewage treatment plants, parking decks, airports and stadiums.

**Applicable Standards:**
USDA approved.

<table>
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<th>No.</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>DS SGGJ17</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>DS 5SGGJ17</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

**Coverage:** First coat is 200 ft²/gal. Second coat (if necessary) is 300–400 ft²/gal.

---

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Penetrating Hardeners

**Diamond Hard**

**Description:** A blend of silicate polymers which penetrate concrete surfaces providing an increase in abrasion resistance and a reduction in the surface absorption of liquids. Product imparts a low sheen which enhances the appearance of the concrete surface.

**Features:** Reduces porosity and increases hardness of the concrete surface. VOC compliant. Resists penetration of oil and many chemicals.

**Application:** Chemically hardens, seals and dustproofs interior, exterior, horizontal concrete substrates.

**Applicable Standards:** Meets USDA specifications for use in food processing areas as well as all VOC requirements.

**Drying Time:**
- Light Foot Traffic: 4-6 hrs
- Wheel Traffic: 24 hrs

**Coverage:** 200–250 ft²/gal. Actual coverage rate dependent upon finish and surface porosity. On concrete that is porous or soft, additional applications of Diamond Hard may be required.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU 5GDH</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>EU 55GDH</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

**Mascohard**

**Description:** A high-end hardening and dustproofing compound that is chemically reactive and permanently bonds to concrete.

**Features:** permanent, resists forklift tire marks, environmentally safe, easy water cleanup, no dilution required and odorless.

**Application:** Chemically hardens, seals and dustproofs interior, exterior, horizontal concrete substrates.

**Applicable Standards:** Meets USDA specifications for use in food processing areas as well as all VOC requirements.

**Coverage:** 150–200 ft²/gal. Actual coverage rate dependent upon finish and surface porosity. On concrete that is porous or soft, additional applications of Mascohard may be required.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 5GMH</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>MS 55GMH</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

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Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
SILANE / SILOXANE SEALERS

Mascoseal Silane 40%

Description: A chemical treatment that helps concrete become repellent to salt, water and other contaminations. Silane 40% is an alkyltrialkoxy silane in mineral spirits. Also available with a fugitive dye.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 5GMS40</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>MS 55GMS40</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

Application: Forms a permanent, chemically bonded layer within the concrete surface. This layer becomes a filter. Salt water and staining substances are repelled while water vapor passes out of the treated surface. This reduces the damaging effects of moisture penetration and the resulting corrosion of reinforcing steel. Reacts within the concrete quickly and exhibits good water repellency in 4 hrs. Sprinkling a few drops of water on the concrete surface is an easy way to check the application. The water drops should “bead” to indicate protection.

Applicable Standards: Testing performance evaluations have proven that Silane 40% is superior to oleogemeric siloxanes, methacrylates, stearates, siliconates, silicates, urethanes, butadienes, chlorinated rubbers and many other coating systems for water repellency on concrete structures.


Mascoseal Siloxane 6, 12 WB

Description: A silane/siloxane emulsion penetrating sealer for use on concrete and masonry surfaces. Chemically reacts to the masonry substrate forming a highly water repellent barrier. Provides a layer that becomes a filter for salt, water and staining substances that are repelled while water vapor passes freely out of the treated surface. This reduces the damaging effects of moisture penetration and resulting corrosion of reinforcing steel in concrete. Mascoseal Siloxane VOC is a silane/siloxane in water emulsion. Has an extremely small molecular structure that allows superior penetration into the substrate for long life. Has good alkalinity resistance. When properly applied, treated surface has a natural appearance.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 5GMS6</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>MS 5GMS12</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

Application: Mascoseal Siloxane is recommended for use on concrete and masonry surfaces—either horizontal or vertical. It is used to protect buildings, bridges and parking garages.

Coverage: Clay Brick: 75–100 ft²/gal. Exposed Aggregate: 100–150 ft²/gal. Smooth Concrete: 125–175 ft²/gal. Surface porosity and texture determine the amount of material. The following is a guide for estimating. Always test on actual surfaces for accurate coverage and suitability for that surface.

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
NW Bondbreaker Fast Dry

Description: A fast drying, long chain, chemically reactive bondbreaker for tilt-up construction. Formulated specifically for the unique climate in the Northwest United States and available exclusively from Masons Supply Company. Free of silicones, resins and waxes. Panels will lift clean and free of resin staining. Organic compounds in it react with the free limes in the concrete, producing gels that form a water impermeable barrier. The water impermeable barrier restricts mix water (needed for hydration) from being sucked into the casting slab. The resulting downside surface of the panel will be stronger and have a more uniform appearance.

Application: Provides a clean easy lift for tilt-up and lift slab concrete construction. Prevents bonding of masonry and concrete droppings from overhead pour areas.

Applicable Standards: Meets or exceeds Federal EPA VOC requirements. ASTM C-309 when tested on steel troweled concrete at a coverage rate of 200 ft²/gal.

Specifications:
- Tack Free: 1 hr
- Recoat Time: 2 hrs
- Light Traffic: 2 hrs
- Vehicle Traffic: 4 hrs

Coverage:
- Cure Coat: 200–400 ft²/gal.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 5GNWB</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>MS 55GNWB</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Curing concrete is essential for good results and is the final and most important step in producing good concrete. Retention of moisture in fresh concrete during the hydration process builds strength, improves abrasion resistance and freeze-thaw resistance.

If concrete is not cured, its strength can be reduced by up to 40% and can result in surface cracking, crazing, curling, and dusting.

It is very important to cure the concrete immediately after finishing. Wet burlap, water spray and plastic sheets are effective methods of curing only if the concrete is kept constantly damp for 7 days. Otherwise, membrane applied curing compounds are preferred.

The main performance specification for curing compounds is ASTM C-309. The specification states that curing compound shall not allow the concrete specimen to loose more than .55 kg of water per square meter of surface area in 72 hours. The white- pigmented compound shall exhibit a reflectance of at least 60% of that of a standard magnesium oxide reference plate.

Types of curing compounds: Type 1 - clear or translucent without dye; Type 1D – clear or translucent with fugitive dye; Type 2 – white pigmented. The curing compound shall also be of one of the following classes: Class A – no restrictions on the vehicle solids material in the curing compound, typically wax based material; Class B – the vehicle solids material in the curing compound must be all resin.

Remember, according to the ASTM Committee on Curing, no sodium silicate curing compound will meet the ASTM C-309 specifications.

Water based products will need agitation before use. However, do not over agitate or induce air. Always apply the curing compound uniformly at the specified application rate, typically 200 sq. ft. per gallon. A major problem on most jobsites is the spraying of curing compounds at higher than recommended application rates. As the result over application causes the curing compound to dry improperly and it takes longer to breakdown and oxidize. A good rule of thumb on flatwork is to apply the curing compound heavy enough to create a slight flood of material on the concrete surface or, apply curing compound in two applications, one at right angles to the other.

Most curing compounds, with the exception of sodium silicates will have to be removed before application of a liquid hardener, an epoxy or urethane coating, a cement based product, or a water repellent like a silane or siloxane.

Resin based curing compounds will normally oxidize and begin to wear off in 60 to 90 days. This is predicated on the amount of sunlight and traffic the curing compound receives. Typically, stiff bristle scrubbing followed by pressure washing is sufficient after this 60 to 90 days period. Additional cleaning of the surface by high pressure water blasting with sand, shot blasting, or chemical removal may be necessary, if the curing compound was over applied, protected from sunlight and did not oxidize, or if it had less than 60 days since the application of the curing compound.

Wax based curing compounds will not break down with exposure to sunlight like resin based curing compounds and will need mechanical removal methods like sand blasting, shot blasting, or hot water (170 degree plus) high pressure washing to remove from the surface.

A good test to see if the curing compound has been removed is to place a few drops of water on the surface and see if the water is readily absorbed into the concrete. If the water droplets bead on the surface and do not absorb readily then additional removal procedure will be necessary. If additional treatment of concrete is required, always follow that manufacturer’s product recommendation for surface preparation procedures.

The above recommendations are applicable for most applications; however refer to data sheets, installation guidelines, and pail or drum labels instructions for recommendations for each specific product.

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
### CURING COMPOUNDS

<table>
<thead>
<tr>
<th>CODE</th>
<th>PRODUCT</th>
<th>FINISH</th>
<th>UNIT SIZE</th>
<th>BASE</th>
<th>ASTM C-309 TYPE</th>
<th>COV GAL</th>
<th>REMOVAL TECHNIQUE</th>
<th>DOT APPROVAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESIN EMULSION</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SY 55GRCC</td>
<td>RESI-CHEM CLEAR</td>
<td>CLEAR</td>
<td>5,55 GAL</td>
<td>WATER</td>
<td>I B</td>
<td>200</td>
<td>MECH, CHEM, SUN</td>
<td></td>
</tr>
<tr>
<td>SY 55GRCW</td>
<td>RESI-CHEM WHITE</td>
<td>WHITE</td>
<td>5,55 GAL</td>
<td>WATER</td>
<td>II B</td>
<td>200</td>
<td>MECH, CHEM, SUN</td>
<td></td>
</tr>
<tr>
<td>WAX EMULSION</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WR 55G1300</td>
<td>1300 CLEAR</td>
<td>CLEAR</td>
<td>5,55 GAL</td>
<td>WATER</td>
<td>I A</td>
<td>200</td>
<td>MECH, HOT WATER</td>
<td>ODOT / WSDOT</td>
</tr>
<tr>
<td>WR 55G1600</td>
<td>1600 WHITE</td>
<td>WHITE</td>
<td>5,55 GAL</td>
<td>WATER</td>
<td>II A</td>
<td>200</td>
<td>MECH, HOT WATER</td>
<td>WSDOT</td>
</tr>
<tr>
<td>WR 55G1635</td>
<td>1600 WHITE</td>
<td>WHITE</td>
<td>5,55 GAL</td>
<td>WATER</td>
<td>II A</td>
<td>200</td>
<td>MECH, HOT WATER</td>
<td>ODOT</td>
</tr>
<tr>
<td>SODIUM SILICATE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MS 55GBKURE</td>
<td>MASCO BIOKURE</td>
<td>CLEAR</td>
<td>5,55 GAL</td>
<td>WATER</td>
<td>- -</td>
<td>200</td>
<td>NOT TYP REQUIRED</td>
<td></td>
</tr>
<tr>
<td>SY 55GCH</td>
<td>CURE &amp; HARD</td>
<td>CLEAR</td>
<td>5,55 GAL</td>
<td>WATER</td>
<td>- -</td>
<td>200</td>
<td>NOT TYP REQUIRED</td>
<td></td>
</tr>
</tbody>
</table>

**TYPE:**
- 1 CLEAR OR TRANSLUCENT, WITHOUT DYE
- 1-D CLEAR OR TRANSLUCENT, WITH FUGITIVE DYE
- 2 WHITE PIGMENTED

**CLASS:**
- A NO RESTRICTED ON VEHICLE SOLIDS MATERIAL THAT ARE MEMBRANE FORMING
- B VEHICLE SOLIDS RESTRICTED TO RESIN MATERIAL

**WATER RETENTION:**
Tested in accordance to ASTM C-156. Water loss not more than .55 kg/m2 (95% of reactive moisture retained) of surface in 72 hours. Tested at 100 F, 32% relative humidity.

**DRYING TIME:**
Shall dry to touch in not less than 4 hours.

**REFLECTANCE:**
Type 2 white pigment, shall exhibit a daylight reflectance of not less than 60%.

**EXCLUSION:**
Sodium silicate-based curing materials are excluded.

---

**APPLICATION REQUIREMENTS FINISH REMOVAL REQUIRED PRODUCTS**

- NO REMOVAL REQUIRED
  - MASCO BIOKURE
- FUTURE FINISHES REQUIRED CLEAR
  - RESI-CHEM CLEAR
- HOT WATER REMOVAL
  - 1300 CLEAR
- SIDEWALKS, DRIVEWAYS, STREETS, SLABS CLEAR
  - RESIN BASE
  - WAX BASE
  - 1300 CLEAR
- FINAL TREATMENT CLEAR OR WHITE
  - RESIN BASE
  - WAX BASE
  - SPEC-CURE WHITE
  - 1600/1635 WHITE
- NOTE: HOT WEATHER OR WINDY CONDITION
  - USE EVAPORATION RETARDENT CLEAR
  - NONE
  - EUCOBAR
  - CONFILM
**Resi-Chem Clear**

**Description:** A milky emulsion that forms a moisture resistant membrane. This curing agent dries to form a membrane-like film that retains 95% or more of the concrete moisture at the time of application. Designed to cure concrete for maximum strength, then oxidize as it ages. Provides maximum moisture retention for proper concrete curing.

**Application:** Resi-Chem Clear Cure is a concrete curing compound for freshly placed concrete surfaces. Designed to cure concrete for maximum strength, then oxidize as it ages.

**Coverage:** Spray application recommended. Coverage rate is 200 ft²/gal.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY 5GRC</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>SY 55GRC</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

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**Resi-Chem White**

**Description:** Resi-Chem White is a white pigmented, water emulsion that forms a moisture resistant membrane.

**Application:** Resi-Chem White is a concrete curing compound for freshly placed concrete surfaces. Designed to cure concrete for maximum strength, then oxidize as it ages.

**Coverage:** Spray application recommended. Coverage rate is 200 ft²/gal.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY 5GRC</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>SY 55GRC</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalaion of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
WAX EMULSIONS

1300 Clear
Description: A milky white water wax emulsion that dries clear. Do not use where paints or flooring are to be applied later without removing. Test surface prior to subsequent coatings.

Application: Apply uniformly to horizontal surfaces immediately after the surface water has disappeared from the surface. On vertical surfaces, apply right after forms are removed.

Coverage: Spray application recommended. Coverage rate is 200 ft²/gal.

Applicable Standards:
ASTM C-309, Type I, Class A.
AASHTO M-148, Type I, Class A.
ODOT/WSDOT Approval

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 5G1300</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>WR 5SG1300</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

1600/1635 White
Description: A white wax emulsion that dries white. Do not use where paints or flooring are to be applied later without removing. Test surface prior to subsequent coatings.

Application: Apply 1 coat by constant pressure sprayer or roller at the coverage rate recommended or mechanical methods.

Coverage: Spray application recommended. Coverage rate is 200 ft²/gal.

Applicable Standards:
ASTM C-309, Type II, Class A.
AASHTO M-148, Type I, Class A.
ODOT Approval 1635
WSDOT Approval 1600

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600</td>
<td>WR 5G1600 5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>WR 5SG1600 55 gal. drum, 550 lbs.</td>
<td></td>
</tr>
<tr>
<td>1635</td>
<td>WR 5G1635 5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>WR 5SG1635 55 gal. drum, 550 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Cure & Hard**

**Description:** A sodium silicate solution that acts as a cure and hardener for concrete. Treated concrete surfaces may receive subsequent coatings that are compatible with concrete. Follow manufacturers information for surface preparation.

**Application:** Cure & Hard is a concrete curing and hardening product. As a cure, it allows concrete to cure more thoroughly for maximum strength. As a hardener, it reacts with the free lime in the concrete to provide a hard, dustproof and abrasion resistant surface.

**Coverage:** Spray application recommended. Coverage rate is 200–400 ft²/ gal. If concrete is extremely porous, more than 1 coat may be necessary.

**Coverage:** USDA Approved.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY 5GCH</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
<tr>
<td>SY 55GCH</td>
<td>55 gal. drum, 550 lbs.</td>
</tr>
</tbody>
</table>

---

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Masco Biokure

Description: A state-of-the-art membrane forming cure that will not discolor concrete surfaces, nor does it need to be removed prior to applying further surface coatings. It is a premium cure, hardener and dustproofer for new or aged concrete surfaces. It is an entirely unique cure, hardener and dustproofer. Produces a moisture resistant membrane to control hydration. Results in a concrete surface with increased abrasion, impact and chemical resistance. When applied per instructions product is compatible with further surface coatings, cementitious mortars, adhesives and paints. No need to remove prior to covering cured concrete surface with tile, carpet or wood.

Application: Concrete decks, floors, sidewalks and driveways. Architectural walls, columns and beams. Ideal for parking garages, warehouses, schools, food processing plants, hospitals, etc. Interior and exterior surfaces.

Specifications:
- 72°F
- Dry to Touch: 1 hr
- Reccoat Time: 2 hrs
- Light Traffic: 2 hrs
- Vehicle Traffic: 4 hrs

Coverage:
- Rough finish: 200–300 ft²/gal./coat
- Broom finish: 300–400 ft²/gal./coat
- Hard troweled: 500–600 ft²/gal./coat
- Vertical surface: 400–500 ft²/gal./coat
- Aged concrete: 200–300 ft²/gal./coat

Applicable Standards:
Federal EPA VOC.

Application:
Concrete decks, floors, sidewalks and driveways. Architectural walls, columns and beams. Ideal for parking garages, warehouses, schools, food processing plants, hospitals, etc. Interior and exterior surfaces.

Specifications:
- 72°F
- Dry to Touch: 1 hr
- Reccoat Time: 2 hrs
- Light Traffic: 2 hrs
- Vehicle Traffic: 4 hrs

Coverage:
- Rough finish: 200–300 ft²/gal./coat
- Broom finish: 300–400 ft²/gal./coat
- Hard troweled: 500–600 ft²/gal./coat
- Vertical surface: 400–500 ft²/gal./coat
- Aged concrete: 200–300 ft²/gal./coat

Applicable Standards:
Federal EPA VOC.

Application:
Concrete decks, floors, sidewalks and driveways. Architectural walls, columns and beams. Ideal for parking garages, warehouses, schools, food processing plants, hospitals, etc. Interior and exterior surfaces.

Specifications:
- 72°F
- Dry to Touch: 1 hr
- Reccoat Time: 2 hrs
- Light Traffic: 2 hrs
- Vehicle Traffic: 4 hrs

Coverage:
- Rough finish: 200–300 ft²/gal./coat
- Broom finish: 300–400 ft²/gal./coat
- Hard troweled: 500–600 ft²/gal./coat
- Vertical surface: 400–500 ft²/gal./coat
- Aged concrete: 200–300 ft²/gal./coat

Applicable Standards:
Federal EPA VOC.

Application:
Concrete decks, floors, sidewalks and driveways. Architectural walls, columns and beams. Ideal for parking garages, warehouses, schools, food processing plants, hospitals, etc. Interior and exterior surfaces.

Specifications:
- 72°F
- Dry to Touch: 1 hr
- Reccoat Time: 2 hrs
- Light Traffic: 2 hrs
- Vehicle Traffic: 4 hrs

Coverage:
- Rough finish: 200–300 ft²/gal./coat
- Broom finish: 300–400 ft²/gal./coat
- Hard troweled: 500–600 ft²/gal./coat
- Vertical surface: 400–500 ft²/gal./coat
- Aged concrete: 200–300 ft²/gal./coat

Applicable Standards:
Federal EPA VOC.

Application:
Concrete decks, floors, sidewalks and driveways. Architectural walls, columns and beams. Ideal for parking garages, warehouses, schools, food processing plants, hospitals, etc. Interior and exterior surfaces.

Specifications:
- 72°F
- Dry to Touch: 1 hr
- Reccoat Time: 2 hrs
- Light Traffic: 2 hrs
- Vehicle Traffic: 4 hrs

Coverage:
- Rough finish: 200–300 ft²/gal./coat
- Broom finish: 300–400 ft²/gal./coat
- Hard troweled: 500–600 ft²/gal./coat
- Vertical surface: 400–500 ft²/gal./coat
- Aged concrete: 200–300 ft²/gal./coat

Applicable Standards:
Federal EPA VOC.

Application:
Concrete decks, floors, sidewalks and driveways. Architectural walls, columns and beams. Ideal for parking garages, warehouses, schools, food processing plants, hospitals, etc. Interior and exterior surfaces.

Specifications:
- 72°F
- Dry to Touch: 1 hr
- Reccoat Time: 2 hrs
- Light Traffic: 2 hrs
- Vehicle Traffic: 4 hrs

Coverage:
- Rough finish: 200–300 ft²/gal./coat
- Broom finish: 300–400 ft²/gal./coat
- Hard troweled: 500–600 ft²/gal./coat
- Vertical surface: 400–500 ft²/gal./coat
- Aged concrete: 200–300 ft²/gal./coat

Applicable Standards:
Federal EPA VOC.

Application:
Concrete decks, floors, sidewalks and driveways. Architectural walls, columns and beams. Ideal for parking garages, warehouses, schools, food processing plants, hospitals, etc. Interior and exterior surfaces.

Specifications:
- 72°F
- Dry to Touch: 1 hr
- Reccoat Time: 2 hrs
- Light Traffic: 2 hrs
- Vehicle Traffic: 4 hrs

Coverage:
- Rough finish: 200–300 ft²/gal./coat
- Broom finish: 300–400 ft²/gal./coat
- Hard troweled: 500–600 ft²/gal./coat
- Vertical surface: 400–500 ft²/gal./coat
- Aged concrete: 200–300 ft²/gal./coat

Applicable Standards:
Federal EPA VOC.

Application:
Concrete decks, floors, sidewalks and driveways. Architectural walls, columns and beams. Ideal for parking garages, warehouses, schools, food processing plants, hospitals, etc. Interior and exterior surfaces.

Specifications:
- 72°F
- Dry to Touch: 1 hr
- Reccoat Time: 2 hrs
- Light Traffic: 2 hrs
- Vehicle Traffic: 4 hrs

Coverage:
- Rough finish: 200–300 ft²/gal./coat
- Broom finish: 300–400 ft²/gal./coat
- Hard troweled: 500–600 ft²/gal./coat
- Vertical surface: 400–500 ft²/gal./coat
- Aged concrete: 200–300 ft²/gal./coat

Applicable Standards:
Federal EPA VOC.
FINISHING AIDS

Confilm

Description: An evaporation retardant, finishing aid that, once diluted, is spray applied on the surface of fresh concrete. Reduces rapid loss of surface moisture. Reduces crusting; helps prevent plastic shrinkage cracking. Assists troweling operations and is easy, economical to use.

Application: Floor slabs, parking and bridge decks. Low water-cement ratio mixes. Excellent during hot, windy conditions to reduce evaporation moisture loss. Aid to finishing super plasticized, micro silica mixes and specialty toppings.

Coverage: 200–400 ft²/gal. (diluted solution).

Mixing: Dilute 1 part with 9 parts of potable water by volume.

Coverage: 1 gal. mixed with 9 gal water will cover approximately 2,000–4,000 ft².

Mixing: Dilute 1 part with 9 parts of potable water by volume.

Mascofilm

Description: Designed to reduce surface moisture evaporation on all types of concrete flatwork. Effective in conditions where rapid drying occurs, such as high winds, low humidity and high temperatures. Retains surface moisture in all types of concrete flatwork. Helps prevent plastic shrinkage cracking. Reduces wind crusting of flatwork surfaces. No effect on curing compounds and other floor toppings. Easy and beneficial to use. Total compatibility with fresh concrete.

Application: Basic uses include floors, pavements, parking garages, decks, concrete containing fly ash, dry shake floors and condensed silica fume concrete. Useful as finishing aid during troweling operations. Used on interior and exterior concrete surfaces. Ideal finishing aid for epoxy tools.

Applicable Standards: Federal EPA VOC.

Coverage: 1 gal., 200–400 ft²/gal. (diluted solution).

Mixing: Dilute 1 part with 9 parts of potable water by volume.

No. | Size
---|---
MS 1GFILM | 1 gal. pail, 12 lbs., 6/case
MS 5GFILM | 5 gal. pail, 50 lbs., 36/pallet
Eucobar

**Description:** An evaporation retardant, finishing aid that, once diluted, is spray applied on the surface of fresh concrete. Reduces rapid loss of surface moisture. Reduces crusting; helps prevent plastic shrinkage cracking. Assists troweling operations and is easy, economical to use.

**Application:** Floor slabs, parking and bridge decks. Low water-cement ratio mixes. Excellent during hot, windy conditions to reduce evaporation moisture loss. Aid to finishing super plasticized, micro silica mixes and specialty toppings.

**Coverage:** 200–400 ft²/gal. (diluted solution).

**Mixing:** Dilution Rate is 9:1 (Water: EUCOBAR).

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU 1GEB</td>
<td>1 gal. pail, 12 lbs., 6/case</td>
</tr>
<tr>
<td>EU 5GEB</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
</tbody>
</table>

*Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.  
Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.*
The concrete slump should not exceed 5”. The addition of too much water to the concrete mix will significantly lower the compressive strength and the durability of the concrete surface.

For all shake-on floor hardeners the base slab should not contain more than 3% entrained air. The problem with too much air entrainment is that it can excessively slow down bleed water migration to the concrete surface, which will create finishing problems. It can also create blisters on the concrete surface due to the trapping of the air in the concrete slab.

Typically the use of a vapor barrier underneath the concrete slab is not recommended for shake-on floor hardeners applications. All of the moisture in the slab must then migrate out to the top surface. This creates long delays before the application of the shake-on floor hardener begins. Also a vapor barrier can create a curling problem with differential drying of the base slab unless the curing conditions are perfect.

No calcium chloride admixtures should be allowed in the concrete.

During application of the shake-on floor hardener, two application of the material are preferred over one. Typically 2/3 of the material is applied during the first pass and the balance on the second pass. This helps ensure that no areas on the concrete surface were missed during the application.

The preferred method of applying a shake-on floor hardener is with a mechanical spreader. If the material is applied by hand or shovel, do not throw the material too far or too high. This can result in a separation of fines and granular material in the shake-on material.

After the concrete has been poured, screeded into place and floated with a wood bull float, apply the shake-on after initial bleed water has disappeared. Allow the shake-on to remain unworked until it soaks up moisture from the fresh concrete and becomes a uniform dark color. Then float the surface with wood floats or float blades on a power trowel. Do not use steel trowel or finish blades at this point in time. Steel trowels or finish blades will seal the concrete surface too soon trapping excess air and moisture in the slab which causes blistering in surface.

After the second application has been floated and the surface water has disappeared, the concrete should be firm and ready for final finishing, use a steel trowel or finish blades for a smooth finish. Combination blades should not be used on shake-on floor hardeners. Stainless steel blades are suggested for finishing colored or white floors. Burnish or hard troweling will darken/splotch colored and white floors.

Curing is critical. Use wet burlap cure or apply a manufacturer approved curing compound. Do not use a water cure, wet burlap cure, or waterproof paper to cure a colored or white shake-on floor. Removable wax emulsions are suggested for colored/white floors.

The above recommendations are applicable for most applications; however refer to data sheets, installation guidelines, and bag or label instructions for recommendations for each specific product.
# DRY SHAKE FLOOR HARDENERS

<table>
<thead>
<tr>
<th>CODE</th>
<th>PRODUCT</th>
<th>AGG TYPE</th>
<th>LBS</th>
<th>PKG</th>
<th>QTY PLT</th>
<th>CLR OPT</th>
<th>APP RATE</th>
<th>SINGLE PASS</th>
<th>LT DUTY</th>
<th>MED DUTY</th>
<th>HVY DUTY</th>
<th>ABRAS RESIST</th>
<th>IMPACT RESIST</th>
<th>DENSITY RESIST</th>
<th>RUST RESIST</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMEY</td>
<td>EMERY TUFF</td>
<td>EMERY</td>
<td>50</td>
<td>BAG</td>
<td>50</td>
<td>YES</td>
<td>1-2 LB</td>
<td>1 LB</td>
<td>1 LB</td>
<td>1-1/2 LB</td>
<td>2 LB</td>
<td>6 X</td>
<td>2 X</td>
<td>2 X</td>
<td>YES</td>
</tr>
<tr>
<td>METALLIC</td>
<td>EU EPHD</td>
<td>EMERY TUFF</td>
<td>EPHD</td>
<td>METAL</td>
<td>50</td>
<td>BAG</td>
<td>64</td>
<td>YES</td>
<td>1.5-3.0 LB</td>
<td>1 LB</td>
<td>1 LB</td>
<td>1-1/2 LB</td>
<td>2 LB</td>
<td>8 X</td>
<td>3 X</td>
</tr>
<tr>
<td>QUARTZ</td>
<td>EU SRN</td>
<td>SURFLEX</td>
<td>QUARTZ</td>
<td>50</td>
<td>BAG</td>
<td>64</td>
<td>YES</td>
<td>1-2-2 LB</td>
<td>1 LB</td>
<td>1/2 LB</td>
<td>1 LB</td>
<td>-</td>
<td>2 X</td>
<td>0 X</td>
<td>2 X</td>
</tr>
<tr>
<td>NON SKID</td>
<td>TAM BAS8</td>
<td>INDAG AGGREGATE</td>
<td>BASALT</td>
<td>50</td>
<td>BAG</td>
<td>60</td>
<td>NO</td>
<td>2-6 LB</td>
<td>.5 LB</td>
<td>2 LB</td>
<td>.6 LB</td>
<td>2 X</td>
<td>0 X</td>
<td>2 X</td>
<td>YES</td>
</tr>
</tbody>
</table>

**APPLICATIONS:**
- INDUSTRIAL FLOOR APPLICATIONS
- IRON ARMORED JOINTS
- HIGH ABRASION APPLICATIONS
- NON SLIP FLOORS

---

# TRAFFIC TOPPINGS

<table>
<thead>
<tr>
<th>CODE</th>
<th>PRODUCT</th>
<th>SURFACE</th>
<th>LBS</th>
<th>PKG</th>
<th>QTY PLT</th>
<th>CF BAG</th>
<th>APP THICK</th>
<th>ABRAS RESIST</th>
<th>IMPACT RESIST</th>
<th>DENSITY RESIST</th>
<th>RUST RESIST</th>
<th>SLUMP</th>
<th>LIFE</th>
<th>INITIAL</th>
<th>FINAL</th>
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</thead>
<tbody>
<tr>
<td>TROWEL HEAVY DUTY</td>
<td>DS ETN</td>
<td>EMEY TUFF TOP (1)</td>
<td>EXTERIOR</td>
<td>80</td>
<td>BAG</td>
<td>40</td>
<td>0.34</td>
<td>34-2&quot;</td>
<td>6 X</td>
<td>2 X</td>
<td>YES</td>
<td>2&quot;</td>
<td>30 MIN</td>
<td>60 MIN</td>
<td>120 MIN</td>
</tr>
<tr>
<td>SELF LEVELING &quot;INTERIOR ONLY&quot;</td>
<td>PCR SFC</td>
<td>SUPER FLOWCRETE (2)</td>
<td>INTERIOR</td>
<td>45</td>
<td>BAG</td>
<td>70</td>
<td>0.45</td>
<td>14-1&quot;</td>
<td>0 X</td>
<td>0 X</td>
<td>0 X</td>
<td>YES</td>
<td>-</td>
<td>10 MIN</td>
<td>19 MIN</td>
</tr>
</tbody>
</table>

**PRIMERS:**
1. DS 1GJ58 EMERY TUFF BONDER
2. PCR 1G100 P100 PRIMER

**APPLICATIONS:**
- INDUSTRIAL REPAIRS
- REPAIR WAREHOUSE FLOOR JOINTS
- LEVELING FLOORS

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# TYPE TRAFFIC APPLICATION PRODUCTS

**EXTRA HEAVY DUTY STEEL WHEEL TRAFFIC**
- INTERIOR / EXTERIOR Topping (NEW / EXISTING)
- EMERY TUFF TOP / J 58 EPOXY BOND

**HEAVY DUTY HARD RUBBER TIRE TRAFFIC**
- INTERIOR USE DRY SHAKE, (NEW)
- EUCOPLATE HD / EMERY TUFF

**MEDIUM DUTY HARD RUBBER TIRE TRAFFIC**
- INTERIOR / EXTERIOR DRY SHAKE, (NEW)
- EMEY TUFF

**MEDIUM / LIGHT DUTY HARD PNEUMATIC TIRE TRAFFIC**
- INTERIOR USE Topping (EXISTING)
- SURFLEX

**COMMERICAL FLOORS**
- INTERIOR / EXTERIOR DRY SHAKE, (NEW)
- SUPER FLOWCRETE / P100 PRIMER

- INTERIOR / EXTERIOR DRY SHAKE, (NEW)
- INDAG BASALT AGGREGATE
**EMERY**

**Emery Tuff**

**Description:** A ready to use, shake on floor hardener comprised of a blend of 100% pure emery, special additives and portland cement. Emery is a natural mined material that is extremely hard, tough and abrasion resistant. Completely non corrosive and rust free and thus it can be used either inside or outside. Offers a superior alternative to metallic floor hardeners because it is rust free and will provide a hard and abrasion resistant floor. Dramatically increases the life of a concrete floor up to 10 times. On the Moh hardness scale it has a 8–9 rating. Nonrusting and can be used in a wet environment. Resistant to dusting, spalling and deterioration. Use on interior or exterior applications.

**Application:** Designed to provide an extremely hard, dense and abrasion resistant floor for heavy duty applications. Concrete will be very resistant to dusting, spalling, deterioration and surface abrasion. Surfaces will also be more resistant to water absorption, chemicals and deicing salts thus reducing cleaning and maintenance costs. Applications includes: industrial plants, foundries, car, truck and tractor assembly plants, loading docks, smelters, warehouses, service garages, processing plants, generating stations, sewage and water treatment plants, resource recovery plants, paper mills, etc.

**Specifications:**
- **Compressive Strength (ASTM C 109):**
  - 1 Day: 4,000 psi
  - 3 Days: 5,000 psi
  - 7 Days: 7,000 psi
  - 14 Days: 9,000 psi
  - 28 Days: 10,000 psi
- **Abrasion Resistance:**
  - 6x normal concrete
- **Impact Resistance:**
  - 2x normal concrete
- **Density:**
  - 2x normal concrete
- **Coverage:**
  - Medium Duty Floors: 1 lb./ft²
  - Heavy Duty Floors: 1–1½ lbs./ft²
  - If more than ½ lb./ft² is applied, apply in 2 applications.

---

**METALLIC**

**EUCO-PLATE HD**

**Description:** A dry shake, metallic floor hardener with graded iron aggregate in a high strength cementitious binder. Designed to be incorporated into fresh concrete slabs. Provides a dense, tough surface capable of withstanding the abrasion and impact loading seen by floor slabs of numerous industrial and manufacturing facilities. Specially formulated to be applied at heavy application rates which exceed those of standard first generation metallic hardeners. Also used to construct iron armored joints to protect and reinforce joint shoulders in heavy traffic areas.

**Application:** Designed for industrial floors, loading docks, warehouses, main high traffic aisle ways, processing plants, passenger and freight terminals, towveyors, distribution centers, iron armored joints.

**Specifications:**
- **Compressive Strength (ASTM C 109):**
  - 1 Day: 4,000 psi
  - 3 Days: 5,000 psi
  - 7 Days: 7,000 psi
  - 14 Days: 9,000 psi
  - 28 Days: 10,000 psi
- **Abrasion Resistance:**
  - 6x normal concrete
- **Impact Resistance:**
  - 2x normal concrete
- **Density:**
  - 2x normal concrete
- **Coverage:**
  - Medium Duty Floors: 1 lb./ft²
  - Heavy Duty Floors: 1–1½ lbs./ft²
  - If more than ½ lb./ft² is applied, apply in 2 applications.

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**QUARTZ**

**SURFLEX**

**Description:** A quartz-silica mixture of finely graded non-metallic aggregates, plasticizer and cement binder. It is an economical concrete floor hardener recommended for both interior and exterior use. It is particularly valuable because of its non-rusting characteristics when floors will be frequently wet.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU SRN</td>
<td>50 lb. bag, 64/pallet</td>
<td></td>
</tr>
</tbody>
</table>

**Application:**
- Designed uses such as:
  - Corridors and washrooms in institutional and public buildings
  - Auto showrooms and service centers
  - Factory and warehouse floors
  - Commercial and industrial facilities
  - Restaurants and dairies

**Specifications:**
- USDA Compliant
- Coverage: May be applied at rates from 0.5 to 2.0 lb./ft². Higher application rates yield better total abrasion resistance.

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**NON-SKID**

**Non-Slip Aggregate**

**Description:** A crushed and graded igneous aggregate, recommended for use wherever a hard, long wearing, heavy duty non-slip floor is required. Its wear resistant qualities often exceed those of stone, gravel and various other selected materials often used in the construction of heavy duty floors. Graded to produce an optimum combination of sharp irregular particles, ranging from large to small, which mesh together and form an excellent acid resisting non-slip surface. Available in standard #8 to #30 size.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application:** For use on food processing plants, dairies, breweries, wherever concrete surfaces are exposed to water, stairways, platforms, ramps carrying pedestrian traffic in public and private buildings. Also in parking garage ramps where additional traction is necessary for entering and leaving vehicles.

**Specifications:**
- Specific Gravity: 2.87
- Hardness: 7 mohs
- Absorption: 0.19%
- Aluminum Oxide: 25.4%
- Silica: 56.1%
- Coverage Rates:
  - Generally at a rate of: 1 lb./ft²

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Emery Tuff Top

Description: A ready-to-use floor topping comprised of a blend of 100% pure emery corundum, special additives and portland cement. Emery is a naturally mined material that is abrasion resistant. Used either indoors or out. Offers a superior alternative to metallic floor toppings because it is rust-free. Available in a natural concrete color or in the following colors: battleship gray, French gray, tan, terra cotta, tile red, black, brown, green and light.

Application: Designed to provide a dense and abrasion resistant floor for heavy-duty applications. Dramatically increases the life of a concrete floor up to 10 times. Concrete floors protected by Emery Tuff Top will be very resistant to dusting, spalling, deterioration and surface abrasion. Recommended for industrial plants, waste transfer stations, foundries, car, truck and tractor assembly plants, loading docks, smelters, warehouses, service garages, processing plants, generating stations, sewage and water treatment plants, resource recovery plants, paper mills, etc.

Specifications: 72°F

100% pure emery/corundum consisting of a minimum of 50% aluminum oxide, a minimum of 24% iron oxide and no more than 8% silica.

Application Life: 30 min

Set Time (ASTM C-266):
Initial 60 min
Final 120 min

Compressive Strength (ASTM C-109):
1 day 5,000 psi
7 day 8,000 psi
28 days 14,000 psi

Coverage: 1 bag yields approximately 22 bags/pallet.

Epoxy Bonding Agent

DS 1GJ58 1 gal. unit, 12 lbs.
Super Flowcrete
Description: A technically advanced portland cement based material which is self-leveling, self-drying and will perform very well as an interior finished floor, wearing surface or underlayment. It is a 1 component, polymer modified scientific blend of cements, select graded silica and special additives. Self-drying through an internal chemical reaction which uses the water not needed for hydration. Gives a smooth, flat, finished floor which is suitable for quick application of floor coverings or use as a finished wearing surface. Consult data sheet for more information.

Application: Designed to be used as a self-leveling wearing surface topping, underlayment or decorative finished floor. Easy to apply and provides a smooth, tough, finished floor. Use it as a new floor or for floor repairs in light manufacturing facilities. Suitable for rubber tire forklift traffic. Also designed to be used as an interior decorative floor for retail, hotels, restaurants and similar applications. Integral concrete colors and stains may be used to make decorative patterns and designs.

Thickness Per Lift:
Underlayment: 0–2"
Wearing surface: ¼"–2"

Specifications:
75° F

Application Life: 10–12 min

Set Time (ASTM C-191):
Initial 19 min
Final 49 min

Compressive Strength (ASTM C-109):
1 day 2,600 psi
3 days 3,900 psi
7 days 5,300 psi
28 days 6,100 psi

Flexural Strength (ASTM C-348):
28 days 1,360 psi

Bond Strength (ASTM C-1042):
28 days 935 psi

Coverage:
Super Flowcrete: One bag yields approximately .45 ft³ and will cover 45 ft² at ⅛” thickness. For applications over 1”, extend with 15 lbs. clean washed ⅜” pea gravel. Yield will be increased to approximately .55 ft³.

P-100 Primer: Prime concrete with P-100 mixed 1:1 with water covers approximately 300 ft².

Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions. Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Surface Preparation**

All surfaces coming in contact with grout must be free of dirt, oil, grime, curing compounds, and other contaminants. Concrete surface should be roughened to improve bond. Surface should be saturated with water for 24 hours prior to placement. Surface should be saturated surface dry (SSD) with no water ponding immediately prior to placement of grout.

**Form Preparation**

All forms should be treated with form release. Forms should be caulked with silicone at all seams. Forms should be placed to allow a minimal amount of shoulder on the grout. Large grout shoulders tend to crack and break up. A required shoulder should be cut back at a 45 degree angle after the grout stiffens.

**Mixing**

Always use drinking water. Large grout quantities should always be mixed in a paddle blade mortar mixer. Small amounts can be mixed with a ½” drill with a jiffy paddle. Use caution not to whip in air. Always place ¼ of mix water into the mixing container or mixer before adding grout. After initial mixing, add the prescribed water as needed until reaching the desired consistency. Mix time should be typically 4 to 5 minutes.

Follow manufacturers recommendation for aggregate extention amounts when placement depths exceed normal placement thickness.

Do not re-temper the grout by adding water after grout stiffens.

**Curing**

Grout must be cured immediately after placement and finishing. Proper curing minimizes surface dusting, checking and crazing. Leave forms in place as long as possible to take advantage of the forms as an excellent cure. Proper curing is extremely important. Follow manufacturers recommendation.

**Hot Weather Grouting**

Temperatures above 85 degrees require special hot weather procedures. First try to keep the bags of grout in the shade with the plastic shrink-wrap removed. Use cool water for mixing. Water can be cooled with ice, making sure that ice is not mixed with grout. A fine screen can be used to filter out the ice when pouring the mix water. It is even more critical during hot weather to keep the grout base saturated with water for 24 hours in advance. The metal base plate should be cooled and this can be accomplished with wet burlap or towels. If possible, create shade for the area to be grouted. During pumping applications keep the pumping lines cool, especially with long lines. This can be accomplished with wet towels or rags. Also prior to priming the pump with cement slurry, run cold water through the lines to cool them down. The ideal time of day for hot weather grouting is late in the day, not early in the morning. This allows the grout to initially cure during the cool evening hours. Hot weather will reduce the working time with the grout, thus smaller batches may be required.

The above recommendations are applicable for most applications; however refer to data sheets, installation guidelines, and bag or label instructions for recommendations for each specific product.

**Note For Epoxy Grouting**

Do not follow this guide, follow manufacturers recommendations.
### General Purpose GROUTS

| TYPE | CODE | PRODUCT | QTY | CF | APP | AGG | EXT | EXT | FLUID | PLASTIC | DRY | PKG | PLT | BAG | THICK | ADD | CF | FLUID ABLE TIC PAK GRADE LIFE SET DAY DAY DAY DAY TEMP TEMP APPEAR |
|------|------|---------|-----|----|-----|-----|-----|-----|-------|---------|-----|-----|-----|-----|-------|----|----|------------------|---------|       |
| I    | TAM NC | NC GROUT | 50 BAG | 64 | 0.43 | 1/2-2 | 25 LBS | 0.61 | 2-6" | YES YES YES | C | 30 MIN | 2 HR | 3,000 | 6,000 | 8,000 | 12,500 | 4-900 | ODOT |
| II   | EU DP  | DRY PACK | 50 BAG | 64 | 0.40 | 3/4-2" | 15 LBS | 0.50 | 2-4" | - | - | YES | YES | - | C | 25 MIN | 2 HR | 3,000 | 6,000 | 8,000 | 12,500 | 4-900 |
| III  | FS G   | FIVE STAR REG GROUT | 50 BAG | 56 | 0.50 | 1-3" | 25 LBS | 0.66 | 3-4" | YES YES YES | C | 15 MIN | 4 HR | 2,500 | 5,000 | 6,500 | 12,500 | 4-900 |
| I,II | DS 1107 | ADVANTAGE 1107 | 50 BAG | 60 | 0.43 | 1/2-3" | 25 LBS | 0.61 | 3-6" | YES YES YES | C | 30 MIN | 4 HR | 2,000 | 4,000 | 5,000 | 7,500 | 12,500 | 4-900 |

**Applications:**
- **I** Pumpable
- **II** Pourable

**Grade:**
- ASTM C-1107 Standards for Nonshrink GROUTS
  - **A** Volume control of GROUT is caused by expansion before the hardening occurs, minimum of 0%, maximum of 4% (ASTM C-827).
  - **B** Volume control of GROUT is caused by expansion after GROUT hardens, minimum of 0%, maximum of 0.3% (ASTM C-157).
  - **C** Volume control of GROUT is caused by a combination of both mechanisms.

**Compressive Strength (ASTM C-109 Modified):**

<table>
<thead>
<tr>
<th>1 DAY</th>
<th>7 DAY</th>
<th>28 DAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000 PSI</td>
<td>3,500 PSI</td>
<td>5,000 PSI</td>
</tr>
<tr>
<td>2,500 PSI</td>
<td>5,000 PSI</td>
<td>6,500 PSI</td>
</tr>
</tbody>
</table>

### Precision Fluid GROUTS

| TYPE | CODE | PRODUCT | QTY | CF | APP | AGG | EXT | EXT | FLUID | PLASTIC | DRY | PKG | PLT | BAG | THICK | ADD | CF | FLUID ABLE TIC PAK GRADE LIFE SET DAY DAY DAY DAY TEMP TEMP APPEAR |
|------|------|---------|-----|----|-----|-----|-----|-----|-------|---------|-----|-----|-----|-----|-------|----|----|------------------|---------|       |
| I    | TAM SG | TAMMS GROUT SUPREME | 55 BAG | 48 | 0.48 | 1/2-2" | - | - | YES | YES YES | C | 20 MIN | 4 HR | 4,000 | 6,000 | 7,000 | 9,000 | 12,500 | 4-900 |
| I    | FS G100 | FLUID 100 | 55 BAG | 50 | 0.50 | 1/2-2" | - | - | YES | YES YES | C | 30 MIN | 3 HR | 3,500 | 6,000 | 6,500 | 8,000 | 12,500 | 4-900 |
| I    | DS HP  | HI-PERFORMANCE GROUT | 50 BAG | 60 | 0.60 | 1/2-3" | 25 LBS | 0.56 | 3-6" | YES YES YES | C | 30 MIN | 4 HR | 4,000 | 7,000 | 8,000 | 10,000 | 12,500 | 4-900 |
| I    | EU HF  | HI-FLOW GROUT | 50 BAG | 64 | 0.45 | 1/2-2" | 20 LBS | 0.56 | 2-6" | YES YES YES | C | 30 MIN | 4 HR | 4,000 | 6,000 | 7,000 | 9,000 | 12,500 | 4-900 |

**Applications:**
- **I** Mineral Aggregate
- **II** Metallic Aggregate

**Grade:**
- **A** Volume control of GROUT is caused by expansion before the hardening occurs, minimum of 0%, maximum of 4% (ASTM C-827).
- **B** Volume control of GROUT is caused by expansion after GROUT hardens, minimum of 0%, maximum of 0.3% (ASTM C-157).
- **C** Volume control of GROUT is caused by a combination of both mechanisms.

**Compressive Strength (ASTM C-109 Modified):**

<table>
<thead>
<tr>
<th>1 DAY</th>
<th>7 DAY</th>
<th>28 DAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000 PSI</td>
<td>3,500 PSI</td>
<td>5,000 PSI</td>
</tr>
<tr>
<td>2,500 PSI</td>
<td>5,000 PSI</td>
<td>6,500 PSI</td>
</tr>
</tbody>
</table>

**Applications:**
- **Machinery Grouting Pumpable Fluid Consistency**
- **Critical Grouting Longer Working Time**
- **Consult Specifications Sheets for Complete Technical, Installation and Surface Prep Procedures**
- **All testing performed @ 72 F, maximum water**
### GENERAL PURPOSE

#### 1107 Advantage

**Description:** A nonshrink, non-corrosive, nonmetallic grout. Formulated as a cement based product with high quality materials. Offers the advantages of pumpability while providing a controlled, net positive expansion. Advantages include: controlled, net positive expansion; nonshrink; nonmetallic/non-corrosive; pourable, pumpable; interior and exterior applications; and resists water and salt penetration and damage from freeze-thaw cycles.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS 1107</td>
<td>50 lb. bag, 60/pallet</td>
</tr>
</tbody>
</table>

**Application:** Designed for interior and exterior grouting of precast concrete components, structural column base plates, anchoring bolts, rebars, dowels, bearing pads and keyway joints. Also finds applications in paper mills, oil refineries, food plants, chemicals plants as well as sewage and water treatment plants.

**Thickness Per Lift:**
- ½”–3” neat
- 3”–6” extended

**Applicable Standards:**
- ASTM C-1107 Grades A, B, C.

**Coverage:** 1 bag yields approximately .43 ft³. For applications over 3”, extend with 25 lbs. of clean washed ⅜” pea gravel. Yield will be increased to approximately .61 ft³.

**Specifications:**
- 72° F
- Application Life: 30 min
- Set Time (ASTM C-266):
  - Initial: 4 hrs
  - Final: 6 hrs

**Compressive Strength (ASTM C-109 Modified):**
- Dry Pack:
  - 1 day: 5,000 psi
  - 3 day: 7,000 psi
  - 28 day: 10,000 psi
- Flowable:
  - 1 day: 2,500 psi
  - 3 day: 5,000 psi
  - 28 day: 8,000 psi

---

#### Five Star Regular

**Description:** A nonshrink grout for supporting machinery requiring precision alignment. When tested in accordance with ASTM C-827, Five Star Grout shows positive expansion.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS G</td>
<td>50 lb. bag, 56/pallet</td>
</tr>
</tbody>
</table>

**Application:** Recommended for grouting machinery baseplates to maintain precision alignment. Nonshrink grouting of structural steel and precast concrete. Installation of anchors and dowels. Support of tanks and vessels. Repair of concrete in confirmed areas.

**Applicable Standards:**
- When tested in accordance with ASTM C-827, Five Star Grout shows positive expansion. Meets the performance requirements of ASTM C-1107 and CRD-C 621 specifications for nonshrink grout for Grades A, B and C over a wide temperature range and a long working time.

**Thickness Per Lift:**
- 1”–3” neat
- 3”–6” extended

**Specifications:**
- 72° F
- Application Life: 15 min
- Set Time (ASTM C-266):
  - Initial: 4 hrs
  - Final: 6 hrs

**Compressive Strength (ASTM C-109):**
- Plastic:
  - 3 day: 5,500 psi
  - 7 day: 6,500 psi
  - 28 day: 8,000 psi
- Flowable:
  - 1 day: 2,500 psi
  - 3 day: 3,500 psi
  - 7 day: 5,000 psi
  - 28 day: 6,500 psi

**Coverage:** One bag yields approximately ½ ft³. For applications over 3”, extend with 25 lbs. of clean washed pea gravel. Yield will be increased to approximately ¾ ft³.

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**NC Grout**

**Description:** A nonshrink, nonstaining grout. Its multi-flow quality allows this product to be used at various consistencies including pumping into inaccessible areas. NC Grout may be packed, rodded, vibrated, poured, or pumped. It has high compressive and flexural strengths and is non-rusting and non-corrosive.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAM NC</td>
<td>50 lb. bag, 64/pallet</td>
</tr>
</tbody>
</table>

**Application:** Used interior or exterior to grout structural steel, columns, anchor bolts, precast structural members, and tee joints.

**Thickness Per Lift:**
- ½”–2” neat
- 2”–6” extended

**Applicable Standards:**
- Corp of Engineer Specifications CRD C-621 and CRD C-588, ASTM C-827 and ASTM C-1107.

**Coverage:** One 50 lb. bag will yield approximately 0.43 ft³ of grout. For applications over 2”, extend with 25 lbs. of clean washed 3/8” pea gravel. Yield will be increased to approximately .61 ft³.

**Specifications:**
- @ 72° F
- Application Life: 30 min
- Set Time (ASTM C-191):
  - Plastic: Initial 1.5 to 2.0 hrs, Final 3.0 to 4.0 hrs
  - Pourable: Initial 2.5 to 3.5 hrs, Final 4.0 to 5.0 hrs
  - Flowable: Initial 5.0 to 5.5 hrs, Final 7.0 to 8.0 hrs

**Compression Strength (ASTM C-109):**
- Plastic:
  - 3 days 5,500 psi
  - 7 days 7,500 psi
  - 28 days 8,000 psi

- Pourable:
  - 3 days 4,000 psi
  - 7 days 6,000 psi
  - 28 days 7,500 psi

- Flowable:
  - 3 days 3,000 psi
  - 7 days 4,800 psi
  - 28 days 6,000 psi

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhaling of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
EURO Hi-Flow Grout
Description: Specially designed for use where high tolerance, high strength and high fluidity are required. Formulated as a natural aggregate system with a shrinkage-compensating binder and is highly flowable without sacrificing strength or performance capabilities. Formulated to provide consistent and exacting performance in critical grouting operations.

Application: Recommended where shrinkage must be eliminated to achieve full bearing, load transfer such as:
- Machinery and equipment requiring high strength, maximum bearing, impact resistant, nonshrinking grouting.
- Structural columns.
- Crane rails.
- Bridge seats.
- Bearing plates.
- Anchorages.

Thickness Per Lift:
- ½" - 2" neat
- 2" - 6" extended

Applicable Standards:
Meets requirements of CRD-C-621, ASTM C-1090, ASTM C-1107, grades A, B, & C.

Specifications:
- Application Life: 72°F
- Application Life: 30 - 60 min
- Set Time (ASTM C-191):
  - Initial: 3 hrs, 50 min
  - Final: 4 hrs, 50 min
- Compressive Strength (ASTM C-109):
  - 1 day: 4,000 psi
  - 3 days: 6,000 psi
  - 7 days: 7,000 psi
  - 28 days: 9,000 psi

Coverage: One 50 lb. bag yields approximately .45 ft³ of fluid grout when mixed with 1.2 gal of water. For applications over 2" extend with 20 lbs. of clean washed 3/8" pea gravel. Yield will be increased to approximately .58 ft³.

Fluid 100
Description: A nonmetallic, nonshrinking fluid grout for supporting machinery requiring precision alignment. When tested in accordance with ASTM C-827 this product shows positive expansion. Advantages include: placement within tight clearances, early cut back (3 hrs) and high 24 hr strength.

Application: Recommended for grouting clearances to ½". Installation of anchor and dowels. Use to support tanks and vessels. Preplaced aggregate grouting. Grouting of machinery baseplates to maintain precision alignment. 24 hrs start up time and covers a wide temperature range for working time.

Thickness Per Lift:
- ½"–3"

Applicable Standards:
Meets ASTM C-827 and ASTM C-1107 Grades A, B, & C.

Specifications:
- Application Life: 72°F
- Application Life: 30 min
- Set Time (ASTM C-266):
  - Initial: 3 hrs
  - Final: 4 hrs
- Compressive Strength (ASTM C-109):
  - Plastic:
    - 1 day: 5,800 psi
    - 3 day: 7,500 psi
    - 7 day: 8,000 psi
    - 28 day: 10,000 psi
  - Fluid:
    - 1 day: 3,500 psi
    - 3 day: 6,000 psi
    - 7 day: 6,500 psi
    - 28 day: 8,000 psi

Coverage: 1 bag yields approx .50 ft³.

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Hi-Performance
Description: A ready-to-use, nonshrink, non-corrosive, nonmetallic grout. It is a cement-based grout designed to deliver a high rate of flow with excellent density and a high compressive strength. 5,000 psi in 1 day and also delivers an outstanding compressive strength at 28 days: over 10,000 psi.

Application: Use for interior or exterior grouting of architectural and structural precast concrete components, structural column base plates, machinery bases, anchoring bolts, cable anchorages, dowels, bearing pads and keyway joints. Also finds excellent applications in power plants, steel mills, paper mills, oil refineries, food plants as well as sewage and water treatment plants.

Specifications:
- 72°F
- Application Life: 30 min
- Set Time (ASTM C-266):
  - Initial: 4 hrs
  - Final: 6 hrs
- Compressive Strength (ASTM C-109):
  - Plastic:
    - 1 day: 5,500 psi
    - 3 day: 8,000 psi
    - 7 day: 9,000 psi
    - 28 day: 11,500 psi
  - Flowable:
    - 1 day: 5,000 psi
    - 3 day: 8,000 psi
    - 7 day: 8,500 psi
    - 28 day: 10,500 psi
  - Fluid:
    - 1 day: 4,000 psi
    - 3 days: 7,000 psi
    - 7 days: 8,000 psi
    - 28 days: 10,000 psi

Coverage:
One 50 lb. bag will yield approximately .42 ft³. For applications over 3" extended with 25 lbs. of clean washed pea gravel. Yield will be increased to approximately .56 ft³.

Tammsgrout Supreme
Description: A heavy duty, high early strength, nonshrink, non-corirosive, ready-to-use grout. The flow characteristic enables this single product to be packed, rodded, vibrated, poured, or pumped. It has high flexural and compressive strengths, and it is nonmetallic, nonrusting, noncorrosive, and non-gas-forming.

Application: Used interior or exterior to grout large structural columns, heavy pump and machine bases, anchor bolts, precast “Tee” joints, bearing plates, and other similar applications.

Specifications:
- 75°F
- Application Life: 20 min
- Set Time (ASTM C-191):
  - Initial: 27 min
  - Final: 37 min
- Compressive Strength (ASTM C-109):
  - Plastic:
    - 1 day: 7,000 psi
    - 3 days: 9,000 psi
    - 7 days: 10,000 psi
    - 14 days: 11,000 psi
    - 28 days: 13,000 psi
  - Flowable:
    - 1 day: 6,000 psi
    - 3 days: 7,000 psi
    - 7 days: 9,000 psi
    - 14 days: 10,000 psi
    - 28 days: 11,000 psi
  - Fluid:
    - 1 day: 4,000 psi
    - 3 days: 6,000 psi
    - 7 days: 7,000 psi
    - 14 days: 8,000 psi
    - 28 days: 9,000 psi

Coverage:
One 55 lb. bag will yield approximately 0.5 ft³.
NOTES

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

Warning: Chronic health effect possible—inhalaion of silica dust may cause lung injury/disease (Silicosis).

Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
## SPECIALTY / EPOXY CHART

### SPECIALTY GROUTS

<table>
<thead>
<tr>
<th>TYPE</th>
<th>CODE</th>
<th>PRODUCT</th>
<th>LBS</th>
<th>QTY</th>
<th>PLT</th>
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<th>UNIT</th>
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<th>AGG</th>
<th>ADD</th>
<th>EXT</th>
<th>THICK</th>
<th>FLOW</th>
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<th>DRY</th>
<th>PACK</th>
<th>C-1907</th>
<th>APP</th>
<th>LIFE</th>
<th>INITIAL</th>
<th>1</th>
<th>3</th>
<th>7</th>
<th>28</th>
<th>SERV</th>
<th>APP</th>
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<tbody>
<tr>
<td>V</td>
<td>EU T0</td>
<td>TREMIE GROUT</td>
<td>50</td>
<td>BAG</td>
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<td>2-2.5 HR</td>
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<td>7,200</td>
<td>325F</td>
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<td>I</td>
<td>EU C0PTX</td>
<td>CABLE GROUT PTX</td>
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<td>40 MIN</td>
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<td>5,800</td>
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<td>15 MIN</td>
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<td>6,500</td>
<td>8,000</td>
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<td>45-90F</td>
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**Applications:**
- Small Annular Space
- Quick Set Anchoring
- High Temp Resistant
- Dry Pack
- Underwater Grouting

### EPOXY GROUTS

<table>
<thead>
<tr>
<th>TYPE</th>
<th>CODE</th>
<th>PRODUCT</th>
<th>LBS</th>
<th>QTY</th>
<th>PLT</th>
<th>UNIT</th>
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<th>CF APP</th>
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<th>28</th>
<th>SERV</th>
<th>APP</th>
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<tbody>
<tr>
<td>FS DPE</td>
<td>DP EPOXY GROUT - FS</td>
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<td>UNIT</td>
<td>36</td>
<td>2 CF</td>
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<td>2 CF</td>
<td>1-3/16&quot;</td>
<td>90 MIN</td>
<td>8 HR</td>
<td>6,000-5,000</td>
<td>14,000</td>
<td>14,000</td>
<td>180F</td>
<td>70-90F</td>
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<td></td>
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</tr>
<tr>
<td>FS HPEG</td>
<td>HP EPOXY GROUT - FS</td>
<td>320</td>
<td>UNIT</td>
<td>36</td>
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<td>180F</td>
<td>70-90F</td>
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</table>

**Applications:**
- Machinery Grouting
- Grouting Base Plates
- Critical Grouting Requirements
- Crane Rails, Vibrating Machinery
- Chemical Resistant

This chart should be considered a guide only
Consult specifications sheets for complete technical specifications.
Installation and surface prep procedures are included.
All testing performed at 72 F, maximum water.

### CONSISTENCY

<table>
<thead>
<tr>
<th>TYPE</th>
<th>APPLICATIONS</th>
<th>PRODUCTS</th>
</tr>
</thead>
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<tr>
<td>V</td>
<td>SMALL ANNULAR SPACE</td>
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</tr>
<tr>
<td>II</td>
<td>QUICK SET ANCHORING</td>
<td></td>
</tr>
<tr>
<td>III</td>
<td>HIGH TEMP RESISTENT</td>
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</tr>
<tr>
<td>IV</td>
<td>DRY PACK</td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>UNDERWATER GROUNTING</td>
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</tr>
</tbody>
</table>

### COMPRRESSIVE STRENGTH

**This chart should be considered a guide only**
Consult specifications sheets for complete technical specifications.
Installation and surface prep procedures are included.
All testing performed at 72 F.
Tremie Grout

**Description:** Specially designed for use in underwater grouting applications. This highly flowable, cement based, non-shrink grout remains in a cohesive, well blended mix when placed or pumped in off-shore concrete repairs. Provides non-shrink for positive, secure support. Product does not contain chlorides as additives which may contribute to rebar corrosion. Has extended working time in hot environment. Is highly flowable for easy mixing & pumping. Rapid strength gain for early support.

**Application:** Used primarily for underwater grouting, pier supports, underwater concrete structures and off shore rigging.

**Thickness Per Lift:**
- ½” - 2’ neat
- 2” - 4” extended

**Applicable Standards:**
- Meets requirements of CRD C 621, Corps of Engineers Specification for Non-Shrink Grout. Shows positive expansion when tested in accordance with ASTM C 1090. Meets the performance requirements of ASTM C 1107-05.

**Specifications:**
- @72° F
- Application Life: 25 min
- **Set Time (ASTM C-191):**
  - Initial: 5 hrs
  - Final: 7 hrs
- **Compressive Strength (ASTM C-109):**
  - 1 day: 3,200 psi
  - 3 days: 4,800 psi
  - 7 days: 5,600 psi
  - 28 days: 7,200 psi
- **Coverage:** One 50 lb. bag will yield approximately 0.45 ft³ of flowable grout when mixed with 1.2 gal of water. For applications over 2”, extend with 20 lbs. of clean washed ¾” pea gravel per 50 lb. bag. Yield will be increased to approximately 0.55 ft³.

---

Cable Grout PTX

**Description:** Designed to produce a pumpable, non-shrink, high strength grout. It provides corrosion protection for steel cables, anchorages and rods. Cable Grout PTX is extremely flowable, and cured grout is similar in appearance to concrete. Cable Grout PTX exhibits thixotropic properties defined by PTI specifications, and can be used to repair previously grouted cables.

**Application:** Formulated for placing into areas around post tensioned cables and rods to encapsulate the steel, provide anchorage and protect the steel from corrosion. Beams, columns, and Precast wall panels. Can also be used in other grouting applications involving restricted spaces where the grout will be in contact with stressed steel.

**Thickness Per Lift:**
- 1/16” - 1” neat

**Applicable Standards:**
- Post-Tensioning Institute (PTI)
  - ASTM C 1107-05
  - ASTM C 887
  - ASTM C 1090

**Specifications:**
- 70˚ F
- Application Life: 120 min
- **Flow Rate (ASTM C-939):** 9 to 20 sec
- **Set Time (ASTM C-191):**
  - Initial: 8 hrs
  - Final: 10 hrs
- **Compressive Strength (ASTM C-109):**
  - 1 day: 2,000 psi
  - 7 days: 5,500 psi
  - 28 days: 7,500 psi
- **Coverage:** One 50 lb. bag yields 0.57 ft³ of fluid grout when mixed with 1.68 gal of water.

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**HTR (High Temp. Resistant)**

**Description:** A unique, cement based grout for supporting equipment and structural baseplates in high temperature environments. Can be poured into place, gains strength rapidly and can be exposed to 1,000°F in 3 hrs. Shows positive expansion when tested in accordance with ASTM C-827. Thermal shock resistant and high temperature resistant. Has high early strengths. Resistant to sulfates and has very low permeability to chlorides.

**Application:** Use in areas of high temperature exposure. Has thermal cycle up to 1,000°F. Rapid turnaround during shutdowns. Use on coker, kiln and foundry applications.

**Thickness Per Lift:**
1”–3” neat

**Coverage:** One 50 lb. bag yields approximately .42 ft³. Not extendable unless special aggregate is available.

**Specifications:**
- Application Life: 72°F
- Set Time (ASTM C-266):
  - Initial: 40 min
  - Final: 45 min
- Compressive Strength (ASTM C-109):
  - Flowable:
    - 3 hrs: 2,500 psi
    - 1 day: 4,500 psi
    - 7 days: 5,500 psi
    - 28 days: 7,000 psi

---

**Instant Grout**

**Description:** A rapid strength gain, nonmetallic, nonshrink grout for supporting machinery requiring precision alignment and quick turnaround. Formulated with an advanced technology ideal for cold weather applications, while providing the greatest reliability and selective chemical resistance. When tested in accordance with ASTM C-827, it shows positive expansion. Superior cold weather performance. High early 4 hr strength. Short turnaround time.

**Application:** Use for low temperature placement. Has short turnaround time. Use to grout machinery baseplates to maintain precision alignment. Nonshrink grouting of structural steel and precast concrete. Installation of anchors and dowels. Support of tanks and vessels. Maximum operating temperature is 200°F.

**Thickness Per Lift:**
1”–3” neat
3”–6” extended

**Coverage:** One unit yields approximately ½ ft³. For applications over 3”, extend with 25 lbs. of clean washed ⁷/₈” pea gravel. Yield will be increased to approximately ¾ ft³.

**Specifications:**
- Application Life: 72°F
- Set Time (ASTM C-266):
  - Initial: 7–10 min
  - Final: 10–15 min
- Compressive Strength (ASTM C-109):
  - Fluid:
    - 4 hrs: 4,000 psi
    - 1 day: 5,000 psi
    - 7 days: 6,500 psi
    - 28 days: 7,000 psi

---

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS HTR</td>
<td>50 lb. bag, 56/pallet</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS IG</td>
<td>50 lb. pail, 36/pallet</td>
</tr>
</tbody>
</table>
Dry Pack
**Description:** A natural aggregate, high strength, non-shrinking material designed specifically for mixing and placing at a damp pack consistency. When mixed with a minimum of water, it can be placed into voids and spaces where formong or containment of self-leveling grouts is not possible or desirable.

**Application:** Designed to be used on application such as structural baseplates, equipment and machinery, anchor bolts, precast elements, honeycombing.

**Features/Benefits:**
- Extremely cohesive at damp pack consistency
- Non-staining and similar to concrete in appearance
- Contains no chloride based or corrosive ingredients
- High compressive strength for maximum bearing capability
- Non-shrink for long term support

**Thickness Per Lift:**
- ½” - 2” neat
- 2” - 4” extended

**Specifications:**
- 72° F
- Application Life: 25 min.

**Compressive Strength (ASTM C-109, modified):**
- 1 day 3,000 psi
- 3 days 5,000 psi
- 7 days 6,500 psi
- 28 days 8,000 psi

**Coverage:** One 50 lb. bag will yield .40 ft³ of material. For grouting depths 2” - 4” extend by 15 lbs. clean pea gravel. Yield will be increased to approximately .50 ft³.

---

Super Flow-Rock
**Description:** A rapid setting, nonmetallic, portland cement based hydraulic cement. Includes select grades of silica sand and additives to provide more strength, shrinkage compensation, improved flow and rapid setting. Anchors by controlled expansion locking the material to be anchored in place. Contains no ferrous metals and is non-rusting.

**Application:** Designed to be used as an exterior or interior anchoring cement. Can be used to anchor bolts, stairway railings, pipe railings, reinforcing rods, signs, posts and virtually any anchoring job. May also be used to grout columns, bearing plates, machinery and precast members. Suitable for use where there is exposure to water and freeze-thaw conditions.

**Thickness Per Lift:**
- ½” - 2”

**Specifications:**
- 72° F
- Application Life: 10 min
- Set Time (ASTM C-266):
  - Initial 17 min
  - Final 35 min

**Compressive Strength (ASTM C-109, Air cured):**
- Flowable:
  - 1 day 5,465 psi
  - 3 days 6,950 psi
  - 7 days 7,900 psi
  - 28 days 9,650 psi

**Flexural Strength (ASTM C-348 Air cured):**
- 7 days 1,460 psi
- 28 days 1,780 psi

**Pullout Strength (1” diameter bolt, 2” diameter hole, 8” deep):**
- 7 days over 40,000 lbs.

**Coverage:** 45 lbs. yields approximately .40 ft³ of mixed material. Not extendable.

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
EPOXY

Deep Pour Epoxy Grout

Description: An expansive, nonshrink, low exotherm epoxy system for machinery grouting. This versatile, dual purpose product is formulated for single, large volume placements and may be used as thin as ½” in depth. This 3-component, 100% solids, solvent-free system is formulated to provide high strength and superior creep resistance combined with the highest effective bearing area. Provides permanent support for machinery requiring precision alignment. Low exotherm with early strength development. Has a long working time. Solvent free cleanup. Adjustable flow for various conditions. Has superior creep resistance and is resistant to some chemicals.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS</td>
<td>2 ft³/unit, 255 lbs/unit</td>
</tr>
</tbody>
</table>

Application: Use in large volume applications; foundation rebuilds and skid mounted equipment; precision alignment under dynamic load conditions; vibration dampening filler for rotating equipment; support of chemical tanks, vessels and rotating equipment; and aggressive chemical environments.

Thickness Per Lift:
- 1”–18” 5 bag extension
- ½”–9” 4 bag extension

Coverage: A 3-component, system consisting of partially filled containers of resin, hardener and polyethylene lined bags of aggregate. Available in units yielding 2 ft³ or hardener when using 5 bags of aggregate (standard). When maximum flow is required, up to 1 bag of aggregate can be withheld to enhance flow (high flow) which reduces yields to 1½ ft³.

Specifications:
- Application: 72° F
- Application Life: 90 min
- Set Time: Initial 8 hrs
- Compressive Strength (ASTM C-579):
  - 1 day 11,000 psi
  - 7 days 15,000 psi
  - Post cured at 140° F 19,000 psi
- Tensile Strength (ASTM C-307): 2,400 psi
- Flexural Strength (ASTM C-580): 4,800 psi
- Shelf Life: 2 years

High Performance Epoxy Grout

Description: A multi-purpose expansive, nonshrink, epoxy grout for supporting equipment requiring precision alignment. HP Epoxy Grout is a three component, 100% solids, solvent-free system formulated to exhibit high early strength combined with the highest creep resistance at elevated temperatures. It also has excellent flow characteristics for ease of placement.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS</td>
<td>2 ft³/unit, 255 lbs/unit</td>
</tr>
</tbody>
</table>

Application: Used for supporting equipment/machinery requiring precision alignment. Fast turnaround time, tight clearance grouting, precision alignment under dynamic load conditions. Vibration dampening filler for rotating conditions. Support of chemical tanks, vessels, and rotating equipment. Used for aggressive chemical environments, installation of anchors and dowels.

Clearances: 1”–6”

Specifications:
- Application: 73° F
- Application Life: 35–45 min
- Set Time: 2 hrs
- Compressive Strength (ASTM C-579):
  - 16 hrs 11,000 psi
  - 1 day 15,000 psi
  - Post cured at 140° F 17,500 psi
- Tensile Strength (ASTM C-307): 2,400 psi
- Flexural Strength (ASTM C-580): 4,800 psi

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.
### INJECTABLE WATERSTOP GROUTS

<table>
<thead>
<tr>
<th>CODE</th>
<th>PRODUCT</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>UNIT</th>
<th># CPT</th>
<th>ACCELL</th>
<th>VSC</th>
<th>CPS</th>
<th>ADVANTAGES</th>
<th>APPR</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV 276</td>
<td>LOW VIS HYDRO 276</td>
<td>HYDROPHOBIC POLYURETHANE FOAM</td>
<td>5 GAL</td>
<td></td>
<td>2</td>
<td>AV 276</td>
<td>25-100</td>
<td></td>
<td>FULLY DENSE, STOP ACTIVE LEAKS, STABILIZE SOL</td>
<td></td>
</tr>
<tr>
<td>AV 290-C</td>
<td>FAST-SET CARTRIDGE 290</td>
<td>HYDROPHOBIC FOAM CARTRIDGE</td>
<td>2</td>
<td>INCLUDED</td>
<td>400-600</td>
<td></td>
<td></td>
<td>FAST ACTING, STOP ACTIVE LEAKS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AV 248</td>
<td>FLEX SEAL 248</td>
<td>HYDROPHOBIC POLYURETHANE INJECTION RESIN</td>
<td>5 GAL</td>
<td></td>
<td>2</td>
<td>AV 248</td>
<td>650</td>
<td></td>
<td>SEALING WATER WET OR DRY MOVING CRACKS</td>
<td></td>
</tr>
<tr>
<td>AV 248LV</td>
<td>FLEX SEAL 248 LV</td>
<td>LOW VIScosity HYDROPHOBIC POLYURETHANE FOAM</td>
<td>5 GAL</td>
<td></td>
<td>2</td>
<td>AV 248LV</td>
<td>150-200</td>
<td></td>
<td>SEALING WATER WET OR DRY SMALL CRACKS</td>
<td></td>
</tr>
<tr>
<td>AV 252</td>
<td>MULTIGROUT 252</td>
<td>DURABLE &amp; VERSATILE FOAM OR GEL</td>
<td>5 GAL</td>
<td></td>
<td>1</td>
<td>-</td>
<td>2500</td>
<td></td>
<td>ONE COMPONENT FOR LARGE CRACKS OR JOINTS</td>
<td></td>
</tr>
<tr>
<td>AV 252LV</td>
<td>MULTIGROUT 252 LV</td>
<td>LOW VIScosity HYDROPHOBIC POLYURETHANE FOAM</td>
<td>5 GAL</td>
<td></td>
<td>1</td>
<td>-</td>
<td>2500</td>
<td></td>
<td>ONE COMPONENT FOR SMALL CRACKS OR JOINTS</td>
<td></td>
</tr>
<tr>
<td>AC 50AS</td>
<td>AQUASEAL LV</td>
<td>HYDROPHOBIC POLYURETHANE INJECTION RESIN</td>
<td>5 GAL</td>
<td></td>
<td>2</td>
<td>INCLUDED</td>
<td>750</td>
<td></td>
<td>WATERSTOP FOR MOVING CRACKS, JOINTS</td>
<td>NSF</td>
</tr>
<tr>
<td>AV 202-C</td>
<td>MULTIGROUT CARTRIDGE</td>
<td>HYDROPHOBIC POLYURETHANE INJECTIO</td>
<td>CARTRIDGE</td>
<td>1</td>
<td>-</td>
<td>2800</td>
<td></td>
<td></td>
<td>NON FLAMMABLE EQUIPMENT CLEANER</td>
<td></td>
</tr>
</tbody>
</table>

**APPLICATIONS:**
- STOPPING RUNNING WATER THRU JOINTS / CRACKS

### HYDROPHILIC WATERSTOPS

<table>
<thead>
<tr>
<th>CODE</th>
<th>PRODUCT</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>UNIT</th>
<th>CONC COVER</th>
<th>EXP %</th>
<th>GRADE</th>
<th>CURE TIME</th>
<th>HEAD PRESSURE</th>
<th>ADVANTAGES</th>
<th>APPR</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADE A30</td>
<td>A-30</td>
<td>WATERSTOP SEALANT</td>
<td>4 GAL</td>
<td>1/3</td>
<td>350</td>
<td>SELF-Level</td>
<td>18 H</td>
<td>&lt;160'</td>
<td>SELF LEVELING MATERIAL INTO NARROW OPENINGS</td>
<td>IRREGULAR SURFACES, GUN GRADE WATERSTOP</td>
<td></td>
</tr>
<tr>
<td>ADE P201</td>
<td>P 201</td>
<td>WATERSTOP SEALANT</td>
<td>10 OZ</td>
<td>2-1/2&quot;</td>
<td>100</td>
<td>NON-SAG</td>
<td>24 H</td>
<td>&lt;50'</td>
<td>WATERHEADPRESSURE 50% HEAD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADE KBA1510FP</td>
<td>KBA 1510FP</td>
<td>WATERSTOP STRIP</td>
<td>82/LF</td>
<td>CTN</td>
<td>2&quot;</td>
<td>25</td>
<td>STRIP</td>
<td>1 HR</td>
<td>&lt;25'</td>
<td>WATERHEADPRESSURE 25% HEAD</td>
<td></td>
</tr>
<tr>
<td>ADE M2005T</td>
<td>MC2005T</td>
<td>WATERSTOP STRIP</td>
<td>330/LF</td>
<td>CTN</td>
<td>4&quot;</td>
<td>100</td>
<td>STRIP</td>
<td>1 HR</td>
<td>&lt;50'</td>
<td>WATERHEADPRESSURE 50% HEAD</td>
<td></td>
</tr>
<tr>
<td>ADE MC2010MN</td>
<td>MC 2010MN</td>
<td>WATERSTOP STRIP</td>
<td>82/LF</td>
<td>CTN</td>
<td>4&quot;</td>
<td>100</td>
<td>STRIP</td>
<td>1 HR</td>
<td>&lt;100'</td>
<td>WATERHEADPRESSURE 100% HEAD</td>
<td></td>
</tr>
<tr>
<td>ADE MC3030M</td>
<td>MC 3030M</td>
<td>WATERSTOP STRIP</td>
<td>330/LF</td>
<td>CTN</td>
<td>4&quot;</td>
<td>100</td>
<td>STRIP</td>
<td>1 HR</td>
<td>&gt;100'</td>
<td>WATERHEADPRESSURE &gt;100% HEAD</td>
<td>NSF</td>
</tr>
</tbody>
</table>

**APPLICATIONS:**
- STOPPING RUNNING WATER THRU JOINTS / CRACKS

### APPLICATION PRODUCTS

<table>
<thead>
<tr>
<th>CONDITION</th>
<th>PRODUCTS</th>
</tr>
</thead>
</table>
| CRACKS / COLD JOINTS 1/2" X 1/2" APPLIED BEAD | NORMAL DEPTH REPAIR | ADE 2141 CONCRETE COVER
| WATERSTOP STRIP SEAL | 0" HEAD PRESSURE | ADE 2141 ADHESIVE
| PIPE DIAMETER < 12" | 1/2" TOTAL MOVEMENT | ADE 2141 ADHESIVE
| PIPE DIAMETER > 24" | 0" HEAD PRESSURE | ADE 2141 ADHESIVE
| SHEET PILES | INSTALL BEFORE DRIVEN | A 30
Low Vis Hydro 278

**Description:** Injected as a single component, Low Vis Hydro is a solvent-free moisture activated MDI-based polyurethane resin. The chemical reaction of this product is catalyzed by using the Low Vis catalyst and by using moisture as an initiator. Low viscosity for penetration with very high expansion to fill voids, stop active or potential water leaks, and stabilize soils. Low Vis Hydro withstands wet/dry cycles, permeates well, is nonflammable, and reacts quickly with water to form a dense, impermeable semi-rigid foam.

**Application:** Ground modification/slope stability for prevention of landslides, erosion, or any place where site conditions or project requirements dictate modification of the existing soil properties. Low Vis Hydro is designed to fill voids on the exterior soil properties and stops leaks in below grade structures. Depending on the desired reaction time, add one 128 oz. container of Low Vis Hydro catalyst to the 5 gallon Low Vis Hydro resin. Mix thoroughly. Perform standard cup test with site water to determine the desired reaction time. Use resin within one hour of initial mixing.

**Specifications: 72°F**
- **AV-278 (Uncured)**
  - Appearance: Brown resin
  - Viscosity: 25-100cP
  - Flash Strength: >200°F
  - Specific Gravity: 1.171 ±3%
- **AV-278 (Cured)**
  - Appearance: Milky colored rigid foam
  - Toxicity: Non-toxic
- **AV-279 Catalyst**
  - Appearance: Light Yellow Liquid
  - Viscosity: 10 cP
  - Flash Point: >200°F
  - Specific Gravity: 0.986 ±3%

**No.**  
**Size**
- AV 278  
  5 gal. pail, 45 lbs., 24/pallet
- AV 279  
  128 fl. oz.

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**Fast-Set Cartridge 290**

**Description:** Fast-Set is a two-component, fast reacting hydrophobic polyurethane foam grout designed to stop high volume water leaks. Packaged in a user-friendly design with both components in a single cartridge tube. A static mixer is included. Fast-Set reacts within three seconds to form a dense, firm, and impermeable foam that is tack-free within 25 seconds. Fast-Set is environmentally friendly and contains no solvents, VOC’s, CFC’s, or HFC’s.

**Application:** Used to stop infiltration through sewer collection systems including manholes, pipe joints, storm and drain culverts, and other similar connects. Fills large voids, stops leaks in earthen or concrete structures. Designed for tunnels, mines, dams, reservoirs, etc.

**Specifications:**
- **AV-290 Uncured**
  - Viscosity:  
    - Component A: 200 cps @ 77°
    - Component B: 800 cps @ 77°
  - Density
    - ASTM D-1622: 2.5 lbs./cu. ft.  (free rise)
    - 1.5 lbs./cu. ft.  (confined)
  - Solids: 100%
- **AV-290 Cured**
  - Appearance: Milky colored rigid foam
  - Toxicity: Non-toxic
- **AV-290 Catalyst**
  - Appearance: Translucent amber
  - Ratio: 1:1 - No water needed

**No.**  
**Size**
- AV 290-C  
  12/ctn, 13 lbs./per ctn

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. 

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Flexseal 248**

**Description:** Flexseal is a non-hazardous two component, water activated, MDI based polyurethane injection resin. This water activated compound is capable of forming a closed-cell foam that is suited for sealing wet or dry moving cracks and stopping active leaks. It is also capable of encapsulating areas around underground structures where it act as a semirigid foam.

**Application:** Designed for grouting joints or repairing leaks in concrete structures above/below grade. For use in large voids, pipe annulus between slip-liners, and block wall. Not for potable water applications. Not suitable for high water flows.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV 248</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
<tr>
<td>Catalyst</td>
<td>AV 249</td>
</tr>
</tbody>
</table>

**Specifications:**
- **Flexseal Uncured**
  - Appearance: Pale Yellow
  - Solids (ASTM D-1259): 100%
  - Viscosity (ASTM D-4889): 650 cps
  - Flash Point: >270°F
  - Specific Gravity: 1.114
- **Flexseal Cured Gel**
  - Tensile Strength (ASTM D-3574): 150 psi
  - Elongation (ASTM D-3574): 250%
  - Shrinkage: <4%

**Multigrout 202**

**Description:** Multigrout is a polymer solution which cures when reacted with water. It reacts with water to form a strong film, gel, or foam of polyurethane. Multigrout is a durable and versatile foam or gel. Excellent for heavy or light flow conditions, as well as under water. Nonflammable.

**Application:** When Flexseal LV is injected or placed into the space, the low viscosity resin will react with moisture and begin to expand. The final product is a very dense, closed cell foam impermeable to water yet flexible in nature. Designed for fine cracks above or below grade in humid or arid atmospheres. Flexseal LV fills various voids, pipe penetrations and stops leaks in concrete structures. Intended for use on tunnels, mines, dams, reservoirs, block walls, and structures that may shift. Add up to one 39 oz. container of AV-249-LV Catalyst per 5-gallons of the Flexseal LV resin. Mix thoroughly, but slowly, to avoid creating bubbles in the solution. Perform the standard cup test with site water to determine the desired reaction time.

**Specifications:**
- **Flexseal LV Uncured**
  - Appearance: Milky white to clear liquid
  - Viscosity: 150-250 cP
  - Flash Point: >200°F
  - Specific Gravity: 1.056 ±3%
- **Flexseal LV Cured**
  - Appearance: Milky white flexible foam
  - Toxicity: Non-toxic
- **Flexseal LV Catalyst**
  - Appearance: Light yellow to white, clear liquid
  - Viscosity: 5 cP
  - Flash Point: >200°F
  - Specific Gravity: 1.02 ±3%

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV 248LV</td>
<td>5 gal. pail, 45 lbs., 24/pallet</td>
</tr>
<tr>
<td>Catalyst</td>
<td>AV 249LV</td>
</tr>
</tbody>
</table>

**Multigrout 202-C**

**Description:** Multigrout's intended use would be to prevent water infiltration into sub-grade structures and pipes. Designed for large cracks or joints in concrete. Used on dams, reservoirs, precast structures, and manhole or pipe penetrations.

**Applicable Standards:** Underwater Lab [UL] rated ANSI/NSF standard 61 - Drinking Water Systems components.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV 202</td>
<td>5 gal. pail, 45 lbs., 24/pallet</td>
</tr>
<tr>
<td>AV 202-C</td>
<td>12 oz. cartridge, 12/ctn, 12 lbs.</td>
</tr>
</tbody>
</table>

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Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
INJECTABLE WATERSTOP

Multigrout 202 LV

**Description:** The low viscosity version of the original Multigrout. It is a single component; moisture activated MDI/TDI blended polyurethane injection resin. Designed for sealing active water leaks in cracks or joints in concrete structures. Multigrout LV can withstand high water flows as it can absorb up to 10 times its weight in water. It is designed to permeate tight cracks or joints and cures to form a resilient and flexible, yet tough, closed-cell foam with superb adhesive qualities.

**Application:** Designed to for applications where the flexibility and variability is desired but better penetration is needed from a lower viscosity chemistry. Multigrout LV is used routinely in manhole sealing and pipe penetrations. An excellent choice for moving cracks and joints. Features a low viscosity, 100% solids, solvent-free and non-corrosive. Multigrout LV forms a resilient, flexible foam with superb adhesive properties. Can accept up to 10 times its weight in water.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV 202LV</td>
<td>5 gal. pail, 45 lbs., 24/pallet</td>
</tr>
</tbody>
</table>

**Specifications:**
- **Uncured**
  - Appearance: Brown Resin
  - Viscosity: 650-800 cP
  - Flash Point: >200°F
  - Specific Gravity: 1.147
- **Cured**
  - Appearance: Milky colored flexible foam
- **Ratio:** Preferred ratio is 1:1 (water to resin), however no mixing is required. Pumped as a single component and is effective at a ratio of 10:1 with water.

Akwaseal LV

**Description:** A 2-component (resin & catalyst), hydrophobic, water activated, 100% solids, polyurethane expanding flexible foam for permanent water cut-off in moving cracks or joints. In its uncured form it is a pale yellow nonflammable liquid. When it comes into contact with water, the grout expands and then depending on temperature and amount of accelerator used quickly cures to a tough flexible closed-cell polyurethane foam that is essentially unaffected by corrosive environments.

**Application:** Designed to stop water infiltration through concrete cracks, joints, fractures, and improperly consolidated areas. It is injected as a liquid directly into a leaking crack, fracture, hole or joint. After injection, the grout reacts with water and forms into an expanding foam that fills the void. The cured form adheres to the concrete within the crack to form an impermeable, elastomeric seal. Adheres well to most surfaces including concrete, clay tile, metal, wood, stone, mortar and brick.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 5GAS</td>
<td>5 gal. pail with catalyst, 45 lbs., 24/pallet</td>
</tr>
</tbody>
</table>

**Applicable Standards:** Akwaseal LV is non-corrosive, has EPA approval for contact with potable water.

**Specifications:**
- **Uncured**
  - Appearance: Brown Resin
  - Viscosity: 220 cps
  - Flash Point: >200°F
  - Specific Gravity: 1.147
- **Cured**
  - Appearance: Milky colored flexible foam
  - **Tensile Strength** (ASTM D-1623): 29.3 psi
  - **Elongation** (ASTM D-1623): 80%
  - **Shear Strength** (ASTM C-273): 17.1 psi

Pump Flush

**Description:** A nonflammable solvent mixture for cleaning polyurethane grout pumps and equipment. Composed of a mixture of organic solvents with high dissolving properties for liquid polyurethane products.

**Application:** Use to clean polyurethane grout and equipment.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>WE 5GPF</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
</tbody>
</table>

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
HYDROPHILIC WATERSTOP

A-30
**Description:** Improved chemical resistance and durability, even under alkaline ground water conditions. Easy to use 2 part urethane system. Packaged in ratio amounts. No measuring necessary. The curing process begins when the 2 components are mixed (chemical cure). Curing is not as dependent on humidity and temperature. Cured A-30 has excellent adhesive strength. Has a high rate of expansion and will withstand approximately 160 foot hydrostatic head.

**Application:** Pour A-30 catalyst (1 liter can) into A-30 resin (5 gallon pail). Mix thoroughly (by power mixer). Pour appropriate amount of A-30 into the level interlock. The amount of A-30 required will vary depending on type of sheet pile. Check with your local representative for recommended coverage and on installation instructions.

**Specifications:**
- **Mix Ratio** (resin: catalyst): 15:1
- **Appearance:** Clear Liquid
- **Pot Life:** 1–2 hrs
- **Viscosity:** approx. 2000–3000 MPa.x
- **Gel Time:** 5–6 hrs
- **Cure Time:** 12–18 hrs

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Wt/Ctn (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADE A30</td>
<td>4.0 gal., 60 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

Mechanical Packers
**Description:** Superior design, less parts, hex-neck for easy tightening, zerk type fitting. For injection of chemical grouts in sound and deteriorated concrete. 100 per carton.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Wt/Ctn (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 123P</td>
<td>1/2&quot; x 3&quot;</td>
<td>7.0</td>
</tr>
<tr>
<td>MS 124P</td>
<td>1/2&quot; x 4&quot;</td>
<td>10.0</td>
</tr>
<tr>
<td>MS 126P</td>
<td>1/2&quot; x 6&quot;</td>
<td>16.0</td>
</tr>
</tbody>
</table>

Plastic Packers
**Description:** Hammer-In Plastic Packers with fitted opening with zerk type fitting. 100 per carton.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Wt/Ctn (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS 38P</td>
<td>3/8&quot; x 3&quot;</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
HYDROPHILIC WATERSTOP

Akwaswell®
**Description:** A gun grade, 1 component swelling paste used to stop water infiltration through concrete construction joints. It is a specially formulated polyurethane-based material with a hydrophilic agent dispersed evenly throughout the paste. Akwaswell is installed with a standard caulk gun and self adheres to dry concrete surfaces; no mechanical fastening or adhesives required. The key to Akwaswell’s effectiveness is its 500% swelling capacity when wetted and its plasticity to contour the surrounding surface. This swelling action creates a positive seal against the concrete in construction joints and stops the flow of water through the joint. Akwaswell has been successfully tested to 115 feet of hydrostatic pressure when properly installed in concrete joints.

**Application:** Ideal for rough concrete surfaces and irregular penetration surfaces. Other applications include horizontal and vertical poured-in-place concrete joints, new to existing concrete pours, around penetrations, and concrete repair joints. Not an expansion joint material. Minimum concrete coverage is 2”. Allow to cure 24–36 hours before concrete placement.

**Specifications:**
- **Tack Free:** 12 hrs
- **Tensile Strength (ASTM D-3574-86):** 265 psi
- **Tensile Elongation (ASTM D-3574-86):** 625%
- **Coverage:** One 10.5 fl. oz. cartridge covers approximately 20 LF.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC ASW</td>
<td>10.5 fl. oz. cartridge, 6/case, 7.5 lbs.</td>
</tr>
</tbody>
</table>

P-201 Cartridge
**Description:** A single component hydrophilic compound used in water and repair applications. Can be placed on damp or uneven surfaces and functions in a wide range of temperature ground water conditions. Used in pipe penetrations, preventing water penetration in sheet piles, pre-cast concrete joints, and a variety of joint and crack repair applications. Used in conjunction with formed Adeka waterstops whenever damp or rough surfaces are encountered. Used where less expansion is needed.

**Application:** Ideal for rough concrete surfaces and irregular penetration surfaces. Other applications include horizontal and vertical poured-in-place concrete joints, new to existing concrete pours, around penetrations, and concrete repair joints. Not an expansion joint material. Minimum concrete coverage is 2”. Allow to cure 24–36 hours before concrete placement.

**Specifications:**
- **Tack Free:** 24 hrs
- **Tensile Strength:** 350 psi
- **Tensile Elongation:** 700%

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADE P201</td>
<td>11 fl. oz. cartridge, 6/case, 8 lbs.</td>
</tr>
</tbody>
</table>

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. [See page 172-173 for more information.](#)
<table>
<thead>
<tr>
<th>CODE</th>
<th>PRODUCT</th>
<th>DESCRIPTION</th>
<th>UNIT SIZE</th>
<th>BASE</th>
<th>MAX DILUTE</th>
<th>APP RATE/SF</th>
<th>APP METH</th>
<th>SURFACE REQUIREMENTS</th>
<th># APP</th>
<th>TYPE OF SURFACE</th>
<th>CONC</th>
<th>BRICK</th>
<th>RED CLAY</th>
<th>RUST STAIN</th>
<th>ALGAE</th>
<th>EXIST MASTIC</th>
<th>OIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDR 1G202V</td>
<td>202 V MASONRY &amp; CONCRETE CLEANER</td>
<td>1.5 GAL ACID</td>
<td>10-1</td>
<td>150</td>
<td>S.B.</td>
<td>WET</td>
<td>1</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>ACC 5GPF</td>
<td>PANEL FINISH</td>
<td>CONCRETE CLEANER</td>
<td>5 GAL ACID</td>
<td>4-1</td>
<td>150</td>
<td>S.B.</td>
<td>WET</td>
<td>1+</td>
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<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<td>YES</td>
</tr>
<tr>
<td>ACC 5GMFG</td>
<td>MICRO FINISH GEL</td>
<td>A CONTROL ACID ETCHING GEL</td>
<td>5 GAL ACID</td>
<td>100</td>
<td>B</td>
<td>WET</td>
<td>1+</td>
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<td>YES</td>
<td>YES</td>
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<td>YES</td>
<td>YES</td>
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<tr>
<td>NEW CONSTRUCTION</td>
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</tr>
<tr>
<td>DDR 1G930</td>
<td>930 WHITE SCUM REMOVER</td>
<td>1 GAL ACID</td>
<td>1-1</td>
<td>150</td>
<td>S.B.</td>
<td>WET</td>
<td>1+</td>
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<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>ACC 1GRO</td>
<td>RUST OFF</td>
<td>RUST STAIN REMOVER</td>
<td>1 GAL ACID</td>
<td>1-1</td>
<td>150</td>
<td>S.B.</td>
<td>WET</td>
<td>1+</td>
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<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>DDR 1G940</td>
<td>940 IRON &amp; MANGANESE REMOVER</td>
<td>1 GAL ACID</td>
<td>1-1</td>
<td>150</td>
<td>S.B.</td>
<td>WET</td>
<td>1+</td>
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<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>MS 1GCC</td>
<td>CITRIS CLEAN</td>
<td>CITRIC BASE CLEANER</td>
<td>1.5 GAL SOLV</td>
<td>9-1</td>
<td>100-200</td>
<td>S.B.</td>
<td>DRY</td>
<td>1+</td>
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<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>MA 1G</td>
<td>ACID</td>
<td>MURATIC ACID</td>
<td>1.5 GAL ACID</td>
<td>10-1</td>
<td>150-200</td>
<td>S.B.</td>
<td>WET</td>
<td>1+</td>
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<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

**ADVANTAGES:**
- CLEANING NEW CONCRETE AND MASONRY
- REMEDIAL CLEANER FOR CONCRETE AND MASONRY
- CLEANING STUBBORN STAINS

**APPLICATION:**
- S - SPRAY
- B - BRUSH
- R - ROLLER

This chart should be considered a guide only. Consult specifications sheets for complete technical, safety, dilution and application procedures. Application temperature between 40-90 F.
NEW CONSTRUCTION

202V Masonry Cleaner
Description: A combination of organic and inorganic acids, wetting agents and inhibitors for use in the final clean-up of new masonry. Removes concrete film, scale, rust, algae, scum, red mud, copper and brass oxidation stains and other insoluble carbonates by safely dissolving them. It eliminates the need for costly and potentially damaging grinding or harmful acids.

Application: Easy to handle requiring no special safety precautions. Normal professional care is all that is required. It is stable in storage and has a long shelf life as long as it is kept in original container and free from contamination or freezing.

Dilution: Up to 10 parts water with 1 part concentrate depending on application. Test before full scale application.

Coverage: Approx. 100 ft²/diluted gallon approximately.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDR 1G202V</td>
<td>1 gal. pail, 6/case, 60 lbs.</td>
</tr>
<tr>
<td>DDR 5G202V</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
</tbody>
</table>

Panel Finish
Description: A special cleaner for architectural precast and all concrete where general purpose cleaning is necessary when surface etching is of concern. It combines a blend of mild, fumeless acids and inhibitors, which clean and brighten exposed aggregate concrete without frosting or burning the aggregates as when using muriatic acid or hydrochloric based cleaners are used. Used for cleaning architectural and structural panels after long periods of storage. Safe for use even after installation of windows and doors, when accompanied with proper pre-wetting of the surfaces prior to use.

Application: Apply to the pre-wet surface with brush and scrub vigorously. Flush sufficiently with water. Re-apply if necessary.

Dilution: Use concentrated or dilute with up to 4 parts water. Test before full scale application.

Coverage: Approx. 100 ft²/diluted gallon approximately.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC SGPF</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
</tbody>
</table>

Micro Finish Gel
Description: A control acid etching gel. The acid is blended in gel form to help control fumes and for adherence to vertical surfaces for more uniform and controlled etching.

Application: Ideal for simulated limestone finishes, for field applications, patching including vertical surfaces and as a preparatory step prior to the application of coatings in the place of sandblasting or even light shot blasting. Micro Finish Gel will not interfere with waterproofing or other coatings to be subsequently applied to the etched surface.

Dilution: Do not dilute Micro Finish Gel for best results.

Coverage: Approx. 100 ft²/undiluted gallon approximately.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 5GMFG</td>
<td>5 gal. pail, 50 lbs., 24/pallet</td>
</tr>
</tbody>
</table>

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
930 White Scum Remover

**Description:** Formulated with inhibited acids and wetting agents specially for the removal of white scum (insoluble salt stains) from brick and stone masonry surfaces. Can remove surface stains which can occur during improper and not thorough enough washing procedures (i.e. hazy/dull color; scaly gray/white residue on the face of the masonry.) Effective for removing efflorescence, scale and mineral deposits from face brick, plaster, mortar, cement, E.I.F.S., and other masonry surfaces. It easily removes hard, crusty efflorescence, eliminating the need for costly labor.

**Application:** Highly concentrated and may be diluted. Apply by brush or sprayer. It is stable in storage if kept in original container and free from contamination or freezing and has a long shelf life.

**Dilution:** Up to 1 parts water with 1 part concentrate depending on conditions. Test before full scale application.

**Coverage:** Approx. 100-200 ft²/gallon. More than 1 application may be needed on heavy scale.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DDR 1G930</td>
<td>1 gal. pail, 6/case, 60 lbs.</td>
</tr>
</tbody>
</table>

Rust Off

**Description:** An innovative chemical blend formulated for the removal of those stubborn rust stains on concrete and masonry. Rust-Off is designed as an instant acting ferric ion sequestering formula, which loosens and suspends rust and other particles for easy removal by generous flushing with water.

**Application:** Use as a concentrate, or dilute the solution at the recommended dilution rates depending on the stains to be removed from masonry or concrete surfaces. Test a 4’x4’ area prior to use to ensure surface compatibility. Pre-wet surface and liberally apply the Rust-Off. Let it stand for 5-15 minutes. Brush the treated area vigorously with acid resistant brushes to move and loosen colloidal particles of rust from the surface. Flush thoroughly with water. Repeat if necessary for stubborn stains.

**Coverage:** 1 gal. will cover approximately 150 ft². Area coverage can be increased with dilution.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 1GRO</td>
<td>1 gal. pail, 6/case, 60 lbs.</td>
</tr>
</tbody>
</table>

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Masco Citris Clean**

**Description:** MASCO CITRIS CLEAN concentrate is a cost-effective, natural citrus solvent, cleaner and degreaser. CITRIS CLEAN is an innovative solution for the toughest industrial applications. CITRIS CLEAN will effectively remove grease, grime and other contaminants from architectural concrete and other surfaces. CITRIS CLEAN can be used safely and effectively in a wide range of applications, eliminating the need to stock multiple cleaners. CITRIS CLEAN is V.O.C. compliant with a pleasant citrus odor.

**Application:** An excellent cleaner for equipment, floors, and metal parts. It removes black rubber fire marks, stains, oils, grease, and other contaminants from concrete surfaces in warehouses, industrial plants, factories, and parking garages. Its light, pleasant orange scent is a welcome alternative to the overwhelming, unsafe odors from harsh solvent cleaners.

**Dilution:** Concentrated CITRIS CLEAN is ready to use on tough jobs or follow the recommended dilution table. Field test to determine the optimal concentration for the specific application. The product will turn white when diluted with water.

**Coverage:** Approximately 100–150 ft²/gal. Area coverage can be increased with dilution.

**No.** | **Size**
---|---
MS 1GCC | 1 gal. pail, 4/case, 40 lbs.
MS 5GCC | 5 gal. pail, 50 lbs., 24/pallet

---

**940 Iron Remover**

**Description:** A specially formulated product for the effective removal of iron, manganese, acid burn straw stains and other metallic stain/discoloration, from brick, stone, and concrete surfaces.

**Application:** Apply concentrated 940 Iron & Manganese Stain Remover to the surface being cleaned. Application can be with a synthetic bristle brush, or the most effective method of application is with an acid resistant airless low-pressure sprayer. Allow a 3–5 min dwell time, then reapply. Allow another 3–5 min dwell time then rinse. Application of the rinse water should be with pressure pumping equipment fitted with a fan type tip. Equipment providing 500 psi at 3–5 gal. of water per minute will give the best results.

**Coverage:** 1 gal. will cover approximately 150 ft². Area coverage can be increased with dilution.

**No.** | **Size**
---|---
DDR 1G940 | 1 gal. pail, 6/case, 60 lbs.

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Floor Sweep

**Description:** An easy, economical way to clean all industrial floors without raising dust. Minimizes washing down of floors. Perfect for warehouses. It is a general purpose sweeping compound for concrete, wood floors, etc.

**Wax Base (Green Color):** For use on asphalt, tile and the various types of composition floors where other sweeping compounds may damage the floors. Made with occluded self-polishing wax, which is the same type of wax that the manufacturers of asphalt, tile and similar types of floors recommended.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWEEP OIL</td>
<td>50 lbs.</td>
</tr>
<tr>
<td>SWEEP WAX</td>
<td>40 lbs.</td>
</tr>
</tbody>
</table>

Muriatic Acid

**Description:** Used to clean concrete, brick and block efflorescence. Wear full face protection and impervious clothing (gloves, hoods, suits and rubber boots) when working with acid. Use adequate ventilation or NIOSH approved mist filter, acid gas cartridge to prevent inhalation exposure.

**Application:** Use for acid etching concrete. Always power wash after acid etching. Removes efflorescence from brick and block and will remove cement dust crusted on surfaces.

**Dilution:** Normal dilution 5–10 parts water to 1 part acid. Test before full-scale application.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 1G</td>
<td>1 gal., 4/case, 50 lbs.</td>
</tr>
<tr>
<td>MA 5G</td>
<td>5 gal., 50 lbs., 24/pallet</td>
</tr>
</tbody>
</table>
Speedy-Clean

**Description:** A 100% biodegradable liquid compound specifically formulated to dissolve built-up cement on tools and equipment associated with the concrete ready-mix industry. The highly-concentrated formulation is compounded to maintain sufficient acidity to dissolve hardened cement. The softened concrete substance is then cold-water rinseable with a high-pressure washer.

**Application:** Used to remove concrete on trucks, mixers, tools, forms, saws and finishing machines without high labor costs and damaging hammer-and-chisel work. Safe to use, environmentally responsible with no harsh mineral acids. Non-corrosive, non-flammable, non-fuming.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC 22OZCD</td>
<td>22 oz.</td>
</tr>
<tr>
<td>SC 5GCD</td>
<td>5 gal.</td>
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</tbody>
</table>
CONCRETE SURFACE PREP GUIDE

Proper surface preparation is extremely important to the successful application of any and all repair products. Bond is only as good as the surface to which it is bonded too. Proper preparation of the surface is critical for long term durability. Proper surface preparation of concrete involves 6 basic steps:

Contamination Removal: Grease, wax, oil or various sealers will impair proper bond of a repair material. For thinner repairs where the surface preparation technique may involve little removal of the substrate, contamination removal may be necessary. Presence of such contamination may be determined by dropping a small amount of water or diluted muriatic acid onto the substrate and watching whether the droplets are absorbed or a reaction occurs. No reaction indicates that contaminants are present. If oil has penetrated into the concrete surface, it may be detected by raising the temperature of a small area to about 150°F with a heat lamp. Presence of the contamination is indicated if oil appears or the area becomes greasy to the touch. Typically contamination removal would include scrubbing with envirosol available from Masons Supply or some other industrial degreasers.

Edge Conditioning: Products being applied in thickness greater than 1/4", or where significant contamination of the concrete exists, requires edge conditioning. Square cutting of the edges using a concrete saw is the most common method.

Bulk Removal: Various methods may be employed to remove delaminated or disintegrated concrete down to the level of sound substrate. Chipping is the most common technique. Use of a square tip chisel is recommended. Other methods used include hydro-demolition, scabbling, rotomilling and other mechanical means. Some of these techniques, such as hydro-demolition, may include the final three steps of surface preparation.

It is important to select a method that is aggressive enough to get the job done but not so aggressive as to damage the sound concrete. The following methods may be used as preparation for products being applied in thinner sections or where the substrate is not severely damaged. These methods are ranked according to preference:

Shot blasting: This is the preferred method for removal of thinner sections of concrete. Follow mechanical cleaning with vacuum cleaning.

Sandblasting: Aggressive sandblasting may be used in place of shot blasting for some applications. Use the same procedure as shot blasting, however greater care during clean up will be necessary.

Water blasting: High-pressure water blasting using pressures over 8,000 psi may be sufficient for some applications. Thorough rinsing of the substrate to remove wetted laitance is necessary. Water blasting with pressures below 8,000 psi is insufficient for most applications.

Undercutting: Where significant corrosion of the reinforcing steel has occurred, undercutting of this reinforcement should take place. Refer to ICRI “Guideline for Repair of Deteriorated Concrete due to Reinforcing Steel Oxidation” for this and the following section. Undercutting a minimum of ¼” behind the rebar is recommended.

Cleaning and Repair of Reinforcing Steel: If the exposed reinforcing steel in the patch has corroded it should be cleaned using a sandblaster/water blaster in accordance with commercial blast cleaning standards. In case where the rebar has lost more than 25% of its original cross section, a new rebar piece should be spliced to the old in accordance with ACI 318-83. Significant damage to reinforcement should be reviewed with a licensed professional engineer.

Surface Cleaning of Concrete: The final and often the most important step of surface preparation is the surface cleaning of the concrete. All loose particles and dust must be removed prior to placement of the patching material. This is best done with a pressure washer using water at approximately 3,000 psi. The water jet gives the concrete an uncontaminated, bondable surface.

Pre-dampening the Substrate: All cementitious materials (with the exception of Set 45) should have the substrate pre-dampened with potable drinking water. A saturated surface dry (SSD) condition is required. Any puddle areas should be brushed away or blown off using oil free compressed air.

Bond Slurry Coat: With the exception of Set 45, a bond coat slurry is recommended for achieving better bond with all cementitious products. To make a slurry coat, use a small amount of each batch mixed to a slightly wetter consistency. Thoroughly scrub a bond coat into the substrate with clean, wet, stiff broom or brush immediately ahead of the mortar placement. Do not apply more bond coat than can be covered with mortar before the bond coat dries.

The above recommendations are applicable for most applications; however refer to data sheets, installation guidelines, and bag or label instructions for recommendations for each specific product.
<table>
<thead>
<tr>
<th>Code</th>
<th>Product</th>
<th>Opt UN</th>
<th>PKG</th>
<th>QTY</th>
<th>Lbs</th>
<th>Layer</th>
<th>Thr</th>
<th>Set</th>
<th>Yld</th>
<th>Time</th>
<th>Cond</th>
<th>Temp</th>
<th>Appr</th>
</tr>
</thead>
<tbody>
<tr>
<td>RA SU</td>
<td>RACO SU</td>
<td>1</td>
<td>1</td>
<td>50 BAG</td>
<td>48</td>
<td>0.50</td>
<td>0-1&quot;</td>
<td>10 LB</td>
<td>0.75</td>
<td>1-2&quot;</td>
<td>15 MIN</td>
<td>45 MIN</td>
<td>120 MIN</td>
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<tr>
<td>SELF LEVELING WEAR SURFACE</td>
<td>PCR SLU</td>
<td>1</td>
<td>1</td>
<td>45 BAG</td>
<td>48</td>
<td>0.48</td>
<td>0-2&quot;</td>
<td>15 LB</td>
<td>0.55</td>
<td>1/4&quot;</td>
<td>10 MIN</td>
<td>10 MIN</td>
<td>10 MIN</td>
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<tr>
<td>TROWEL UNDERLAYMENT</td>
<td>RA R50</td>
<td>2</td>
<td>55 KIT</td>
<td>40</td>
<td>0.47</td>
<td>0-1/2&quot;</td>
<td>25 LB</td>
<td>1.60</td>
<td>1/2&quot;</td>
<td>20 MIN</td>
<td>35 MIN</td>
<td>60 MIN</td>
<td>12 MIN</td>
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<tr>
<td>RA RPS</td>
<td>FEATHER SPREAD RPS</td>
<td>1</td>
<td>15 PAIR</td>
<td>54</td>
<td>0.38</td>
<td>0-1/2&quot;</td>
<td>1-2&quot;</td>
<td>5 LB</td>
<td>20 MIN</td>
<td>35 MIN</td>
<td>60 MIN</td>
<td>12 MIN</td>
<td>12</td>
</tr>
<tr>
<td>RA GLIDE</td>
<td>GLIDE</td>
<td>1</td>
<td>10 PAIR</td>
<td>54</td>
<td>0.25</td>
<td>0-1/2&quot;</td>
<td>-</td>
<td>-</td>
<td>7 MIN</td>
<td>20 MIN</td>
<td>40 MIN</td>
<td>12 MIN</td>
<td>12</td>
</tr>
<tr>
<td>TROWEL WEAR SURFACE</td>
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<td>EXPRESS REPAIR</td>
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<td>50 BAG</td>
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<td>0.42</td>
<td>0-1/4&quot;</td>
<td>25 LB</td>
<td>1.60</td>
<td>3/4&quot;</td>
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<td>35 MIN</td>
<td>60 MIN</td>
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<tr>
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<td>EU COSPEED MP</td>
<td>1</td>
<td>50 BAG</td>
<td>64</td>
<td>0.42</td>
<td>1/2-1&quot;</td>
<td>30 LB</td>
<td>0.85</td>
<td>3/4&quot;</td>
<td>30 MIN</td>
<td>45 MIN</td>
<td>60 MIN</td>
<td>12 MIN</td>
</tr>
</tbody>
</table>

**Applications:**
- Repairing rutted concrete
- Repairing rain/freeze damage or unleveled floors
- Patching bridge decks, roadways
- Fast setting patching materials

**Type:**
- Concrete topping's wear surface
- Pneumatic tire traffic
- Pedestrian traffic

**Traffic:**
- Trowel applied
- Fast cure

**Condition:**
- Min 1/8"-1/2"

**Thickness:**
- Super flowcrete / P-100 primer
- Concrete top supreme
- Thin top supreme

**Products:**
- EUCOSPEED MP
- EXPRESS REPAIR
- CONCRETE TOP SUPREME
- MASCOPATCH/MASCOBOND AR
- PATCHCRETE / PATCHCRETE ADMIX
- R100
- MU MP
- EUCOSPEED MP
- EXPRESS REPAIR
- CONCRETE TOP SUPREME
- MASCOPATCH/MASCOBOND AR
- PATCHCRETE / PATCHCRETE ADMIX
- THIN TOP SUPREME
- TROWEL APPLIED
- REG CURSE
- MIN 3/8"
SELF LEVELING UNDERLAYMENT

SLU

**Description:** A self-leveling, non-structural, interior and exterior, floor underlayment mortar containing cement, graded aggregate, polymer and control additives. Mix only with water, it becomes a free flowing material that seeks its own level and achieves a flat and smooth surface. SLU produces a smooth, hard and durable surface to receive a finish floor material, such as carpet, resilient, ceramic, wood, and most other flooring systems. SLU is easily applied and offers an economical installation.

**Application:** Repair, fill and level surfaces. Interior use over properly prepared concrete substrates. Areas of use include: commercial and residential building floors, smoothing rough and uneven floors, both grade and below grade applications, pre-cast and cast in place concrete, underlayment for fast track projects and to refurbish existing wood, tile, terrazzo and concrete floors to receive finish flooring.

**Thickness Per Lift:**
- 0"–1" neat
- 1"–2" extended

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RA SLU</td>
<td>50 lb. bag, 48/pallet</td>
</tr>
</tbody>
</table>

**Specifications:**
- **Flow Time:** 20 min
- **Working Time:** 15 min
- **Set Time** (ASTM C-191):
  - Initial: 45 min
  - Foot Traffic: 2 – 3 hrs
  - Floor Covering: 24 hours
- **Compressive Strength** (ASTM C-109):
  - Air Cured:
    - 3 days: 2,075 psi
    - 7 days: 3,250 psi
    - 28 days: 4,650 psi
- **Tensile Strength** (ASTM C-579): 650 psi
- **Flexural Strength** (ASTM C-580):
  - 28 days: 1,150 psi
- **Lineal Shrinkage** (ASTM C-531):
  - 28 days: < -0.07%

**Coverage:**
- SLU: 50 lb. bag yields approx. 50 sq ft @ 1/8". For thickness 1" & up, use 1/4" – 3/8" pea gravel @ 30 lbs. per bag.
- R-2000: Approx. 200 – 400 sq ft per gal.
- R-3000: Approx. 200 – 400 sq ft per gal.

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
SELF LEVELING TRAFFIC SURFACE

SLT-HS
Description: SLT-HS is a self-leveling, interior or exterior floor topping mortar containing Portland cement, graded aggregates, polymer and control additives. Mixed only with water, it becomes a free flowing material that achieves a flat and smooth surface. Produces a smooth, hard and durable wearing surface or is ready to receive a finish floor. For a wearing surface a quality, high traffic sealer is recommended. SLT-HS is easily applied and offers an economical installation. SLT-HS is a non-gypsum based product.

Application: The mortar can be applied from 1/4” to 1-1/2” in a single lift and up to any depth when mixed with aggregate. For thickness greater than 1-1/2", use 1/4” – 3/8" pea gravel. R-2000 primer is required prior to installation. Apply SLT-HS mixture to the prepared surface by using a gauged spreader tool that can be adjusted to the desired depth. Do not attempt to trowel the wet mortar. For non-porous substrates, such as ceramic tile, terrazzo, epoxy, metal and other impervious surfaces, use R-3000 primer.

Thickness Per Lift: 1/4” – 1½” neat 1½”+ extended
Mixing: SLT-HS Gray is mixed by adding clean water at a rate of approximately 5.5 to 5.8 quarts of water for each 50 lb. bag of dry powder. Do not exceed 5.8 quarts of water. Reference technical data sheet for complete mixing instructions.

Specifications: 70° F
Compressive Strength (ASTM C-579):
1 day 2,950 psi
7 days 4,500 psi
28 days 6,200 psi
Tensile Strength (ASTM C-307):
28 days 750 psi
Flexural Strength (ASTM C-580):
28 days 1,500 psi
Shrinkage % (ASTM C-531):
28 days 0.7%
Wet Density (ASTM C-185): 117 Pounds per Cubic Foot
Hardness: 60 Days Mohs Scale Rating: 5.0
Shore 'D' Hardness: 85
Coverage: SLT-HS: 50 lb. bag yields approx. 25 sq ft @ 1/4”.
R-2000: Approx. 200 – 400 sq ft/gal.
R-3000: Approx. 200 – 400 sq ft/gal.

Super Flowcrete
Description: A technically advanced portland cement based material which is self-leveling, self-drying and will perform very well as an interior finished floor, wearing surface or underlayment. It is a 1 component, polymer modified scientific blend of cements, select graded silica and special additives. Self-drying through an internal chemical reaction which uses the water not needed for hydration. Gives a smooth, flat, finished floor which is suitable for quick application of floor coverings or use as a finished wearing surface. Consult data sheet for more information.

Application: Designed to be used as a self-leveling wearing surface topping, underlayment or decorative finished floor. Easy to apply and provides a smooth, tough, finished floor. Use it as a new floor or for floor repairs in light manufacturing facilities. Suitable for rubber tire forklift traffic. Also designed to be used as an interior decorative floor for retail, hotels, restaurants and similar applications. Integral concrete colors and stains may be used to make decorative patterns and designs.

Thickness Per Lift: Underlayment: 0-2” Wearing surface: ¼”-2”

Specifications: 75° F
Application Life: 10–12 min
Set Time (ASTM C-191):
Initial 19 min
Final 49 min
Compressive Strength (ASTM C-109):
1 day 2,600 psi
3 days 3,900 psi
7 days 5,300 psi
28 days 6,100 psi
Flexural Strength (ASTM C-348):
28 days 1,360 psi
Bond Strength (ASTM C-1042): 935 psi
Coverage: Super Flowcrete: One bag yields approximately .45 ft³ and will cover 45 ft² at ¼” thickness. For applications over 1”, extend with 15 lbs. clean washed ½” pea gravel. Yield will be increased to approximately .55 ft³.
P-100 Primer: Prime concrete with P-100 mixed 1:1 with water covers approximately 300 ft².

Super Flowcrete
Description: A technically advanced portland cement based material which is self-leveling, self-drying and will perform very well as an interior finished floor, wearing surface or underlayment. It is a 1 component, polymer modified scientific blend of cements, select graded silica and special additives. Self-drying through an internal chemical reaction which uses the water not needed for hydration. Gives a smooth, flat, finished floor which is suitable for quick application of floor coverings or use as a finished wearing surface. Consult data sheet for more information.

Application: Designed to be used as a self-leveling wearing surface topping, underlayment or decorative finished floor. Easy to apply and provides a smooth, tough, finished floor. Use it as a new floor or for floor repairs in light manufacturing facilities. Suitable for rubber tire forklift traffic. Also designed to be used as an interior decorative floor for retail, hotels, restaurants and similar applications. Integral concrete colors and stains may be used to make decorative patterns and designs.

Thickness Per Lift: Underlayment: 0-2” Wearing surface: ¼”-2”

Specifications: 70° F
Compressive Strength (ASTM C-579):
1 day 2,950 psi
7 days 4,500 psi
28 days 6,200 psi
Tensile Strength (ASTM C-307):
28 days 750 psi
Flexural Strength (ASTM C-580):
28 days 1,500 psi
Shrinkage % (ASTM C-531):
28 days 0.7%
Wet Density (ASTM C-185): 117 Pounds per Cubic Foot
Hardness: 60 Days Mohs Scale Rating: 5.0
Shore 'D' Hardness: 85
Coverage: SLT-HS: 50 lb. bag yields approx. 25 sq ft @ 1/4”.
R-2000: Approx. 200 – 400 sq ft/gal.
R-3000: Approx. 200 – 400 sq ft/gal.

Super Flowcrete
Description: A technically advanced portland cement based material which is self-leveling, self-drying and will perform very well as an interior finished floor, wearing surface or underlayment. It is a 1 component, polymer modified scientific blend of cements, select graded silica and special additives. Self-drying through an internal chemical reaction which uses the water not needed for hydration. Gives a smooth, flat, finished floor which is suitable for quick application of floor coverings or use as a finished wearing surface. Consult data sheet for more information.

Application: Designed to be used as a self-leveling wearing surface topping, underlayment or decorative finished floor. Easy to apply and provides a smooth, tough, finished floor. Use it as a new floor or for floor repairs in light manufacturing facilities. Suitable for rubber tire forklift traffic. Also designed to be used as an interior decorative floor for retail, hotels, restaurants and similar applications. Integral concrete colors and stains may be used to make decorative patterns and designs.

Thickness Per Lift: Underlayment: 0-2” Wearing surface: ¼”-2”

Specifications: 75° F
Application Life: 10–12 min
Set Time (ASTM C-191):
Initial 19 min
Final 49 min
Compressive Strength (ASTM C-109):
1 day 2,600 psi
3 days 3,900 psi
7 days 5,300 psi
28 days 6,100 psi
Flexural Strength (ASTM C-348):
28 days 1,360 psi
Bond Strength (ASTM C-1042): 935 psi
Coverage: Super Flowcrete: One bag yields approximately .45 ft³ and will cover 45 ft² at ¼” thickness. For applications over 1”, extend with 15 lbs. clean washed ½” pea gravel. Yield will be increased to approximately .55 ft³.
P-100 Primer: Prime concrete with P-100 mixed 1:1 with water covers approximately 300 ft².
## UNDERLAYMENT

### R-25

**Description:** A fine textured latex mix designed for a variety of applications. It is a 2 part product—a blend of various fine cementitious powders and aggregates and latex. When mixed together and applied, some of the latex penetrate into the surface that has been applied. As the mix hardens, the latex particles throughout the mix adhere to each other. The result is a high strength patch that has bonded itself to the concrete surface.

**Application:** Use inside for underlayment. Trueing up rained out slabs or freeze damaged slabs. Leveling, or creating pitch for drainage. Filling holes, cracks, spalled areas, tile grout, etc.

**Thickness Per Lift:**
- 0 – ½” neat
- ½” – 1” extended

**Applicable Standards:**
- USDA Approval.

### Feather Spread RPS

**Description:** A fast setting, smooth textured, high strength, single component, concrete repair compound. Consisting of a uniform, premixed blend of Portland cements and select aggregates with polymer modification to promote lasting surface adhesion, it is used for renovation and new construction. Feather Spread RPS is for multi-purpose repairs and is specially formulated as a floor covering underlayment. Not a gypsum based product. There is no priming needed. It is adhesive compatible.

**Application:** Designed to smooth out uneven subfloors. Can be used to fill in cracks, depressions, and level out ridges to accept new floor covering. Use a steel finish trowel to place the Feather Spread RPS to a properly prepared substrate forcing the material into the voids. Feather Spread RPS is designed for leveling floors on projects where a smooth surface is desired in a short amount of time. Feather Spread RPS can be applied from a feather edge to 1/2” in thickness or can be mixed with 5 pounds of #16 Dolomite per pail for ramps up to 2”. It is walkable in 60 minutes and will accept floor coverings in as little as two hours. Not a wearing surface. Must be covered with flooring or a topping system.

**Specifications:**
- **Application Life:** 70° F
- **Set Time (ASTM C-191):**
  - Initial 35 min
  - Final 60 min
- **Compressive Strength (ASTM C-109):**
  - 1 day 2,000 psi
  - 7 days 2,700 psi
  - 28 days 4,500 psi
- **Bond Strength (ASTM C-3931):**
  - 28 days, 500 psi when bonded to concrete with a CSP of 3 to 5.
- **Coverage:** 15 lbs. covers approximately 37 ft. at a thickness of 1/8”.

### Specifications

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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<tbody>
<tr>
<td>RA R25</td>
<td>45 lb. bag, 40/pallet</td>
</tr>
<tr>
<td>RA TGR25</td>
<td>1 gal. liquid, 4/case, 12 lbs.</td>
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<tr>
<td>RA SGR25</td>
<td>5 gal. liquid, 50 lbs., 24/pallet</td>
</tr>
<tr>
<td>RA 50GR25</td>
<td>50 gal. liquid, 550 lbs.</td>
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</tbody>
</table>

### Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
GLIDE

Description: A very fast setting, self-curing ultrasmooth textured, high strength, single component, finishing compound intended for applications on vertical and horizontal surfaces. Glide is an unsanded, polymer-modified, high-strength, cementitious skimming compound. Designed for smoothing and patching floors and walls on projects where an ultra smooth surface is desired and when drying time is critical. Harder and less likely to dent. No primer needed, exterior rated, and mixes with water only.

Application: May be used over concrete, masonry, approved wood underlayments, terrazzo, tile/stone and cement backer board. Glide is intended for non-structural surface repairs on both interior or exterior floors and walls. When used on floors, Glide is intended as an underlayment and should be covered with a suitable floor covering. For exterior wall finishes, sealing or painting Glide is not required. However, sealing will help to reduce the potential for surface efflorescence and penetration of stains.

Thickness: Can be installed from a featheredge to ½" in one application. Up to 1" in small well-defined areas, such as joints and holes.

Mixing Water: For skim coat applications: 5.25 pints per 15 lb. pail (1 U.S. pint = 16 fl oz.) Mix 2.5 parts powder to 1 part water for less than full pail.

Specifications:  
Working Time (70°F): 7 min  
Set Time (ASTM C-191):  
Initial 20 min  
Final 40 min  
Compressive Strength (ASTM C-109):  
Air Cured  
4 hrs 1,500 psi  
24 hrs 2,400 psi  
7 days 5,000 psi  
28 days 5,150 psi  
Flexural Strength (ASTM C-348):  
28 days 1,200 psi  
Bond Strength (ASTM C-3931):  
28 days 800 psi  
Coverage: 15 lb. pail will cover approximately 42 ft at ½” thickness. Skim coating varies from 200 to 400 SF per pail and depends largely on existing substrate profile.

<table>
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<tr>
<th>No.</th>
<th>Size</th>
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<tbody>
<tr>
<td>RA GLIDE</td>
<td>15 lb. pail</td>
</tr>
</tbody>
</table>

Thin Patch®

Description: A polymer modified, cement based compound that is formulated for patching and repairing concrete and masonry. Features and benefits include single component, polymer modified; trowelable repair mortar; featheredge to 1”; high durability; outstanding bond strength; high strength; and user friendly.

Application: Horizontal, vertical, or overhead repairs; interior and exterior use; fill small holes, honeycomb and spalled areas; repoint mortar joints.

Thickness Per Lift: 0–1” neat

Specifications:  
Application Life: 75°F  
Set Time (ASTM C-266):  
Initial 30–50 min  
Final 1–2 hrs  
Compressive Strength (ASTM C-109):  
7 day 3,350 psi  
28 day 5,100 psi  
Tensile Strength (ASTM C-190):  
7 day avg. 245 psi  
28 day avg. 410 psi  
Flexural Strength (ASTM C-348):  
28 day 725 psi  
Coverage: 50 lb. bag with yield approximately .4 ft³ and will cover 19 ft² at a ¼” thickness. For placements greater than 1” depth, score the surface, allow final set, pre dampen, and place subsequent lift.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAM TP</td>
<td>50 lb. bag, 48/pallet</td>
</tr>
</tbody>
</table>
Thin Top Supreme

**Description:** A latex and microsilica modified cementitious mortar designed for use as a floor or deck topping at thickness of 1/16" to 3/8". Provides excellent durability under freeze/thaw cycling as well as protection against ingress by water, de-icing salts and corrosion. Has normal set times and a mid range slump for easy workability.

**Application:** Used for parking decks, pavements, joints, marine structures, curbs and gutters, ramps, floors, walkways.

**Features/Benefits:**
- Provides a strong, wear resistant thin overlay.
- Excellent durability under freeze/thaw cycling
- Contains an integral corrosion inhibitor
- Excellent bond to concrete and steel
- Resists penetration of water & de-icing salts for good substrate protection.
- Suitable for both interior and exterior use.
- Consistent working time in cold & hot weather.

**Specifications:**
- **72° F**
- **Application Life:** 30-40 min
- **Set Time** (ASTM C-266):
  - Initial 1-1.5 hrs
  - Final 3 hrs
- **Compressive Strength** (ASTM C-109):
  - 1 day 3,000 psi
  - 7 days 5,800 psi
  - 28 days 7,200 psi
  - 56 days 8,000 psi
- **Coverage:** One 50 lb. bag yields approximately 0.45 ft³ when mixed with 3 qts of water. Typical water requirement is 2.5 to 3.5 qts/bag.

**Thickness Per Lift:**
- 1/16" - 3/8" neat

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Mascopatch

**Description:** A 2-component, polymer modified, portland cement mortar. It is a fast setting patching material for surface repairs from 1/8" to 1" neat and up to 2.5" extended in both interior and exterior horizontal applications. Exhibits superior workability by maintaining a smooth, creamy consistency for easy troweling. Thermal expansion similar to concrete. Consistent color match for concrete. High bond, compressive, flexural and tensile strengths. Interior and exterior applications.

**Application:** Ideal for a wide variety of concrete surface repairs such as surfaces subject to freeze/thaw cycles; refinish old concrete and masonry surfaces; parking garages, ramps, warehouses, loading docks and all structural surface repair; fill in pits, voids and defects in concrete and masonry. Open for foot traffic in 12 hrs and light pneumatic tire in 24 hrs.

**Specifications:**
- **72° F**
- **Application Life:** 30 min
- **Set Time** (ASTM C-266):
  - Initial 2 hrs
  - Final 4–5 hrs
- **Compressive Strength** (ASTM C-109):
  - 3 days 2,500 psi
  - 7 days 3,800 psi
  - 28 days 5,000 psi
- **Tensile Strength** (ASTM C-496):
  - 28 days 650 psi
- **Flexural Strength** (ASTM C-78):
  - 28 days 900 psi
- **Bond Strength** (ASTM C-1042):
  - 28 days 1,450 psi

**Coverage:** 45 lbs. will fill approximately 0.42 ft³ when mixed with Mascobond AR and will cover 20 ft² at a 1/4" thickness. For applications over 1" in depth, extend with 20 lbs. clean washed 3/8" pea gravel. Yield will increase to .55 ft³.

**Thickness Per Lift:**
- 1/8"–1" neat
- 1"–2.5" extended

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**Concrete Top Supreme**

**Description:** A latex and microsilica modified cementitious mortar designed for use as a concrete repair mortar at thicknesses of 3/8” to 2”. Provides protection from corrosion and excellent durability under freeze-thaw cycling as well as reducing ingress by water and de-icing salts. Offers normal set times, a mid range slump for easy workability and is compatible with galvanic anodes.

**Application:** Designed for use on parking decks, pavements, joints, marine structures, curbs & gutters, ramps, floors, and walkways.

**Thickness Per Lift:**
- ¾” - 2” - Neat
- 2” - 4” - Extended

**Specifications:**
- Application Life: 30 min
- Set Time:
  - Initial: 1 hour
  - Final: 2.5 hours
- Compressive Strength (ASTM C-109):
  - 1 day: 4,000 psi
  - 7 days: 7,600 psi
  - 28 days: 10,200 psi
- Bond Strength (ASTM C-882):
  - 28 days: 2,500 psi

**Coverage:** One 50 lb. bag yields approximately .40 ft³ when mixed with 2.5 qts of water. A unit of material may be extended with 15 lbs. of 3/8” pea gravel. This will yield 0.55 ft³.

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**Patchcrete**

**Description:** A 2-component latex modified patching and underlayment material. One is a high solids content acrylic latex. The other is a portland cement with graded silica and special chemical additives. Latex modified concrete gives improved bonding, improved chemical resistance, water resistance, tensile strength, compressive strength and flexibility.

**Application:** This high strength portland cement latex combination provides a smooth durable semi-resilient surface which can be used as a finished floor in many applications. Easy to mix and apply, requiring no special tools. Suitable for use as a flowable topping or underlayment, or as a floor or wall repair material when mixed to a stiffer, trowelable consistency. Meets and exceeds the high quality standards required by architects.

**Thickness Per Lift:**
- ⅛” - 1” neat
- 1” - 3” extended

**Specifications:**
- Application Life: 25 min
- Set Time (ASTM C-266):
  - Initial: 120 min
  - Final: 240 min
- Compressive Strength (ASTM C-109):
  - 1 day: 2,000 psi
  - 7 days: 4,100 psi
  - 28 days: 5,500 psi
- Slant Shear Bond (AASHTO T-237):
  - 28 days: 1,400 psi

**Coverage:** One 45 lb. bag of powder and 1 gal. of liquid will yield 0.42 ft² and will cover 45 ft² at 1/8” thickness. For applications over 1”, extend with 20 lbs. clean washed pea gravel. Yield will be increased to approximately 0.55 ft².

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**Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.**

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. *See page 172-173 for more information.*
**TRAFFIC SURFACE**

**R-50**  
**Description:** A latex concrete overlay that is a companion product to the time and performance proven R-25 Latex Concrete Underlayment. It is a heavy duty, portland cement based, latex modified concrete mortar mix designed for those applications requiring stronger physical characteristics than R-25 provides. It is a 2 part product consisting of latex binder, a synthetic latex emulsion and a dry component powder. When the 2 components are blended together and applied the end result is a strongly bonded, high strength, better corrosion resistance and a harder surface than R-25.

**Application:** Recommended for overlay and taping of warehouse and industrial floors. Exterior applications such as sidewalk, walkway and ramp overlays. Parking deck patching and overlays, where salt attack is reduced. Fixing rained out or freeze damaged slabs. Leveling or creating pitch for drainage. Wearing surface that readily receives finish stains, sealers and coatings. Apply from feather edge to any thickness. May be sanded smooth or broom finished.

**Thickness Per Lift:**
- 0–1” neat
- 1”–3” extended

**Specifications:**
- Compressive Strength (ASTM C-109):
  - 1 day: 1,200 psi
  - 7 day: 2,500 psi
  - 28 days: 4,000 psi
- Tensile Strength (ASTM C-190):
  - 28 days: 850 psi
- Flexural Strength (ASTM C-256):
  - 28 days: 1,700 psi
- Shear Bond Strength:
  - 5 days: 650 psi

**Coverage:**
- 1.2 gal. unit: 1 bag to 1 jug yields .52 ft³ and will cover 50 ft² at ¼” thickness.
- 5 gal. unit: 4 bags to 1 pail yields 2.08 ft³ covers 200 ft² at ¼” or 100 ft² at ½”.
- 50 gal. unit: 40 bags to 1 drum yields 20.8 ft³ covers 2000 ft² at ¼” or 1000 ft² at ½”.

**No.**  
**Size**  
**Powder**
- RA R50: 50 lb. bag, 40/pallet
- RA 1GR50: 1 gal. pail, 4/ctn, 48 lbs.
- RA SGR50: 5 gal. pail, 50 lbs., 24/pallet
- RA 50GR50: 50 gal. drum, 550 lbs.

**Liquid**
- RA 1GR50: 1 gal. pail, 4/ctn, 48 lbs.
- RA 5GR50: 5 gal. pail, 50 lbs., 24/pallet
- RA 50GR50: 50 gal. drum, 550 lbs.

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**R-100**  
**Description:** A single component topping compound consisting of a uniform, premixed blend of Portland cements and graded washed aggregates with polymer modification to promote lasting surface adhesion. Ideal for renovation and new construction. R-100 can be applied from a featheredge to 1/2”, for thickness greater than 1/2” use appropriate aggregate. R-100 can be used for horizontal, interior and exterior use, a sealer or coating is recommended when used for a wearing surface. Contains no gypsum, chlorides, ferrous metals or corrosive agents. R-100 is fire retardant and non-toxic.

**Application:** Areas of use include: repairing floors and concrete slabs, underlayment for all finished floor products, horizontal applications (may be coved up walls), exterior applications for walkways & ramps, filling holes, cracks & spalled areas. Designed for areas exposed to medium-duty loads. Leveling or creating pitch to drains, areas with varying weather cycle, rained out or freeze damaged slabs and elevation transitions.

**Thickness Per Lift:**
- 0 – 1/2” neat
- 1/2” – 1” use #7 Dolomite sand @ 25 lbs. per bag.
- 1” & up use 3/8” pea gravel @ 25 lbs. per bag.

**Specifications:**
- Compressive Strength (ASTM C-1439):
  - 7 days: 3,400 psi
  - 28 days: 4,100 psi
- Tensile Strength (ASTM C-190):
  - 28 days: 900 psi
- Flexural Strength (ASTM C-348):
  - 28 days: 1,800 psi
- Shear Bond Strength (ASTM-C-1092 Mod):
  - 7 days: 700 psi

**Coverage:**
- 50 lb bag: Approx. 50 sq. ft. @ 1/8” thickness.

- Bulked with 25 lbs #7 Dolomite Sand: Approx. 18.75 sq. ft. @ 1/2” thickness

**No.**  
**Size**  
**RA R100**
- 50 lb. bag, 48/pallet

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Express Repair

**Description:** A cement based, ready to use patching and repair mortar with rapid strength gain. Contains a unique migratory corrosion inhibitor and requires only potable water for mixing. It develops a tenacious bond and has excellent resistance to freeze/thaw and weathering.

**Application:** Used for rapid patching of horizontal concrete surfaces such as highways, bridge decks, parking decks, loading docks, pavement joints, and industrial floors.

**Thickness Per Lift:**
- 1/4”–1/2” neat
- 1/2”–6” extended

**Applicable Standards:**
Meets or exceeds the requirements of ASTM C-928.

**Coverage:** One 50 lb. bag yields approximately .42 ft³. Extending with 50 lbs. of ⅜” pea gravel per bag will increase yield to approximately .75 ft³.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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<tbody>
<tr>
<td>TAM ER</td>
<td>50 lb. bag, 48 pallet</td>
</tr>
</tbody>
</table>

**Specifications:**
- 75° F
- Application Life: 25 min
- Application Life: 25 min
- Initial: 30 min
- Final: 45 min
- Compressive Strength (ASTM C-109):
  - 2 hrs: 2,500 psi
  - 3 hrs: 3,200 psi
  - 24 hrs: 6,850 psi
  - 7 days: 9,200 psi
  - 28 days: 10,040 psi
- Tensile Strength (ASTM C-190):
  - 7 days: 550 psi
  - 28 days: 660 psi
- Flexural Strength (ASTM C-78):
  - 7 days: 700 psi
  - 28 days: 915 psi
- Bond Strength (ASTM C-882 mod.):
  - 28 days: 2,100 psi

Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
EucoSpeed MP

**Description:** A rapid setting, very rapid hardening magnesium phosphate material for patching and repair of concrete and masonry surfaces. Product requires only the addition of water and can be installed with standard tools, equipment and procedures. It bonds tenaciously to properly prepared concrete and provides a durable patch which is resistant to freeze/thaw cycling and de-icing salts.

**Application:** Recommended for bridge decks, ramps, parking garages, floors, walls (formed), pavements, marine structures, and joint repairs.

**Features / Benefits:**
- Rapid setting for quick repairs in less than one hour
- Extremely high early strength for quick turnaround time
- Easy to use one part system
- Suitable for both interior and exterior applications
- Durable under freeze/thaw cycling and salt exposure

**Thickness Per Lift:**
- ½" - 1" Neat
- 1" - 6" Extended

**Applicable Standards:**
ASTM C-928 for rapid repair.

**Specifications:**
- 72° F
- Application Life: 5 min
- Set Time:
  - Initial: 8 to 12 min
  - Final: 12 to 20 min

**Compressive Strength** (ASTM C-109):
- 2 hrs: 3,500 psi
- 3 hrs: 5,000 psi
- 1 day: 6,000 psi
- 7 days: 7,000 psi
- 28 days: 7,500 psi

**Flexural Strength** (ASTM C-78):
- 4 hours: 400 psi
- 3 days: 500 psi

**Bond Strength** (ASTM C-882):
- 1 day: 1,300 psi
- 28 days: 1,700 psi

**Coverage:** 50 lb. bag yields approximately 0.42 ft³ of mortar when mixed with 0.45 gal of water. For areas deeper than 1", product must be extended with up to 30 lb. of 3/8" pea gravel. Yield will increase to approximately 0.57 ft³ per unit. Never extend this product with limestone or aggregate containing limestone.

---

Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**VersaSpeed LS**

**Description:** A versatile, rapid setting patching and repair compound for both horizontal and form & pour repair projects. Requiring only the addition of water, VersaSpeed LS is a low shrinkage, high early strength material that is easy to use with an accelerated set time for fast project turn around. Similar in appearance to concrete and is suitable for use in patching and repairing concrete surfaces from approximately 1/4" to 6" in thickness.

**Application:** Warehouses, Industrial, Commercial, Institutional Floors, Traffic, Pavements, Loading Docks, Roads, Highways, Parking decks and ramps, Form and pour applications.

**Features/Benefits:**
- Fast set time
- Quick turnover of projects
- High rapid strength
- Economical repairs
- Suitable for interior & exterior applications

**Thickness Per Lift:**
- ¼"–1" neat
- 1"–6" extended

**Specifications:**

<table>
<thead>
<tr>
<th></th>
<th>72°F</th>
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</thead>
<tbody>
<tr>
<td>Application Life</td>
<td>30 min.</td>
</tr>
<tr>
<td>Set Time (ASTM C-403):</td>
<td>Initial 90-120 min, Final 120-150 min</td>
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<tr>
<td>Compressive Strength (ASTM C-109):</td>
<td>5 hrs 3,500 psi, 1 day 5,500 psi, 7 days 8,500 psi, 28 days 10,000 psi</td>
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<tr>
<td>Flexural Strength (ASTM C-348):</td>
<td>1 day 700 psi, 7 days 1,000 psi, 28 days 1,250 psi</td>
</tr>
</tbody>
</table>

**Coverage:** 1 50 lb. bag yields approximately .37 ft³ when mixed with .42 gal of water. Product may be extended with up to 25 lbs. of thoroughly washed 3/8" pea gravel. Approximate extended yield: 0.52 ft³ per bag.

---

Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
## Quick Set Concrete Repair

### Chart

<table>
<thead>
<tr>
<th>CODE</th>
<th>PRODUCT</th>
<th>QTY CF</th>
<th>OVER FLOOR</th>
<th>VERT HEAD</th>
<th>SET TIME</th>
<th>UNIT VERT SET</th>
<th>VERT LIFE</th>
<th>APPR TIME</th>
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</thead>
<tbody>
<tr>
<td>TAM PX</td>
<td>POWDER X</td>
<td>32 PAIL</td>
<td>36 0.30</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>15 SEC</td>
</tr>
<tr>
<td>TAM 5GPLUG</td>
<td>SPEED PLUG</td>
<td>50 PAIL</td>
<td>36 0.45</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>1 MIN</td>
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<tr>
<td>TAM SCB</td>
<td>SPEEDCRETE BLUE</td>
<td>50 BAG</td>
<td>48 0.50</td>
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<td>NO</td>
<td>NO</td>
<td>2 MIN</td>
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<tr>
<td>TAM SCR</td>
<td>SPEEDCRETE RED</td>
<td>50 BAG</td>
<td>48 0.50</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>5 MIN</td>
</tr>
</tbody>
</table>

### Applications
- **3 - 5 MINUTE PATCH**
  - **TAM SCB** - SPEEDCRETE BLUE 50 BAG 48 0.50 YES YES NO 2 MIN 3-5 MIN 20 MIN 3,500 5,460 6,015
  - **TAM SCR** - SPEEDCRETE RED 50 BAG 48 0.50 YES YES YES 5 MIN 8 MIN 20 MIN 2,500 5,290 6,100

### Condition
- **Surface Seepage**
- **Instant Set**
- **1 Minute Set**
- **3 - 5 Minute Set**
- **10 - 20 Minute Set**
- **3 - 5 Minute Set**

### Surface Set Time
- **Instant Set**
- **Normal Time**
- **Final Time**

### Testing
- All testing performed at 72°F
- Application temperature between 40-90°F

### Notes
- Fill voids and cracks
- Patching minor voids and cracks
- Consult specifications sheets for complete technical information and surface prep procedures
- This chart should be considered a guide only
**WATERPLUG**

**Powder-X**
**Description:** A combination of cementitious and silicate based materials used on negative side surfaces to seal and stop leakage caused by hydrostatic pressure. Hardens in seconds when exposed to water. Reacts with moisture and the substrate to form crystals. While moisture is present, the crystallization process will continue for approximately 6 months.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAM PX</td>
<td>32 lb. pail, 36/pallet</td>
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</tbody>
</table>

**Application:** Waterproofs leaking and weeping concrete or masonry from the negative side to protect against hydrostatic water pressure. Applied to interior or exterior walls below grade, slabs on grade, foundations, basements, reservoirs, tunnels, dry dock, and other areas where leakage is encountered. Properly applied, it becomes an integral part of the structure and will not debond from the surfaces.

**Specifications:**
- **Application Life:** 72°F
- **Set Time (ASTM C-266):**
  - Initial: 15 sec
  - Final: 2 min
- **Compressive Strength (ASTM C-109):**
  - 1 hr: 1,835 psi
  - 1 day: 3,125 psi
  - 7 days: 4,000 psi
  - 28 days: 5,000 psi
- **Coverage:** 50 lbs. will yield approximately 0.45 ft³.

**Speed Plug®**
**Description:** A quick setting hydraulic cement compound used to instantly stop running water or seepage leaks in masonry or concrete. Non-shrinking, non-metallic and non-corrosive. Initial set in 1 min. Stops running water or seepage leaks. High strength. Controlled expansion. Can be applied underwater.

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<thead>
<tr>
<th>No.</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>TAM 1GPLUG</td>
<td>10 lb. pail, 6/case</td>
</tr>
<tr>
<td>TAM 5GPLUG</td>
<td>50 lb. pail, 36/pallet</td>
</tr>
</tbody>
</table>

**Application:** Use above or below grade, interior or exterior to stop seepage and flowing water on concrete and masonry walls and floors; and dams, swimming pools, cisterns, reservoirs and water tanks.

**Specifications:**
- **Application Life:** 1 min
- **Compressive Strength (ASTM C-109):**
  - 1 hr: 1,835 psi
  - 1 day: 3,125 psi
  - 7 days: 7,808 psi
  - 28 days: 9,543 psi
- **Tensile Strength (ASTM C-190):**
  - 28 days: 855 psi
- **Flexural Strength (ASTM C-78):**
  - 28 days: 855 psi
- **Coverage:** 1 lb. yields approximately 17 in³ and will repair approximately 30" of ¾" x ¾" crack.

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Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
3 - 5 Minute Patch

Speed Crete Blue

**Description:** A fast setting, ready to use, cement based concrete and masonry patching compound formulated specifically for underwater use. Requires only potable water for mixing. Achieves initial set in 3–5 min. and final set within 20 min., even under water. After initial set, it may be shaved to conform to the contours of the surrounding surface.

**Application:** Use in underwater or below grade on vertical, overhead and horizontal surfaces without forming. Used for the patching, repair, restoration and cosmetic reconstruction of dams, piers, reservoirs, pilings, seawalls, tunnels, sewer pipe and other underwater surfaces. Because of fast initial set time, do not mix more than 50 lbs. at a time. Mix small quantities in a clean pail with a hand trowel.

**Specifications:**
- **Application Life:** 2–3 min
- **Set Time (ASTM C-266):**
  - Initial: 3–5 min
  - Final: 20 min
- **Compressive Strength (ASTM C-109):**
  - 1 day: 3,500 psi
  - 7 days: 5,460 psi
  - 28 days: 6,015 psi
- **Coverage:** 50 lb. bag yields approximately .50 ft³ and will cover approximately 24 ft² at ¼”.

No. | Size
--- | ---
TAM SCB | 50 lb. bag, 48/pallet

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20-Minute Patch

Masco Flash

**Description:** Masco Flash is a ready-to-use, cement based concrete and masonry patching compound formulated specifically for use around water. It requires only potable water for mixing. Product achieves initial set in approximately 20 minutes, and final set in 35-40 minutes. After initial set, Masco Flash may be shaved to conform to the contours of the surrounding surface. Undergoes a chemical “hyper hydration” and produces a very stable, low permeable, cementitious matrix, when combined with the correct amount of water. When properly mixed and applied, develops a very high strength and a tenacious bond.

**Application:** Designed to be used on:
- Interior or exterior above or below grade
- Vertical, overhead and horizontal repairs
- Outstanding repair material for tunnels, basements, concrete pipe, curbs, catch basins, vaults, formed and precast concrete
- Freeze thaw durable
- Trowelable repair mortar

**Specifications:**
- **Application Life:** 10 min
- **Set Time (ASTM C-266):**
  - Initial: 20 min
  - Final: 35–40 min
- **Compressive Strength (ASTM C-109):**
  - 24 hrs: 3,000 psi
  - 7 days: 5,000 psi
  - 28 days: 6,000 psi
- **Coverage:** One 50 lb. bag will yield approximately .50 ft³ and will cover approximately 12 ft² at ½” depth.

No. | Size
--- | ---
MS 5GFLASH | 50 lb. pail, 36/pallet

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.

130 MASON'S SUPPLY COMPANY
Oregon (800) 537-3407 ♦ Washington (800) 537-6216
Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville
Speed Crete Red

**Application**: Use interior or exterior, above or below grade on vertical, overhead and horizontal surfaces without forming. Used for the patching, repair, restoration and cosmetic reconstruction of curbs, sidewalks, expressways, bridges, formed and precast concrete ceilings, panels, walls and concrete pipe.

**Specifications**:  
- Application: 72°F  
- Application Life: 5 min  
- Set Time (ASTM C-266):  
  - Initial: 8 min  
  - Final: 20 min  
- Compressive Strength (ASTM C-109):  
  - 1 day: 2,500 psi  
  - 7 days: 5,290 psi  
  - 28 days: 6,100 psi  

**Coverage**: 1 bag yields approximately .50 ft³ and will cover 24 ft² at a ¼" thickness. For applications over 2", extend with 40 lbs. clean washed ⅜" pea gravel. Yield will be increased to approximately .76 ft³.

**No.** | **Size**  
---|---  
TAM SCR | 50 lb. bag, 48/pallet
### Vertical & Overhead Concrete Repair

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</table>

**Application Set Time:**

- **Type A:**
  - Fast Cure
  - Regular Cure

**Type of Material:**

- **Skim Coat: 1/4"**
- **Concrete Finisher**

**Application Requirements:**

- **Rebar Preparation:**
  - Fast Cure
  - Regular Cure
- **Structural Repair:**
  - Fast Cure

**Products:**

- **Reg Cure:**
  - DURALTOP GEL
  - VERSASPEED LS
- **Form & Pour:**
  - DURALTOP PM
  - MASCOCRETE
SKIM COAT & SACKING

Pavcrete®
Description: A cement based product with graded silica aggregate and special chemical additives for bonding, hardening and moisture retention. It is formulated for smoothing, rubbing and thin coat patching applications. It has a smooth, rich texture making it simple and easy to apply. After curing it is water resistant. It has the setting and curing properties of regular concrete. Featheredges to paper thin. Color controlled to blend with concrete. To get a tougher surface replace one half of mixing water with Patchcrete Acrylic Polymer. Must be sealed or painted after curing.

Application: Brighten and restore old concrete structures. Rub concrete columns and structures. Resurface damaged or rough concrete. Repair voids, honeycombs, holes, chipped areas in poured or precast concrete. Fill cracks and holes in concrete masonry, plaster and stucco. Repair concrete, facings, ceilings, and beams. For smooth applications up to ¼” thickness. For a harder and tougher surface, replace one half of mixing water with Patchcrete Acrylic Polymer.

Thickness Per Lift: 0–¼” vertical & overhead

Specifications:
- Application Life: 72° F
- Application Life: 15 min
- Set Time (ASTM C-266): Initial 20 min
- Set Time (ASTM C-266): Final 60 min
- Compressive Strength (ASTM C-109): 1 day 1,000 psi
- Compressive Strength (ASTM C-109): 7 days 3,285 psi
- Compressive Strength (ASTM C-109): 28 days 3,950 psi
- Coverage: One 40 lb. bag will yield approximately 40 ft² at ¼” thickness.

No.  Size
PCR PCG  40 lb. bag, 70/pallet

Pavcrete® Plus
Description: A polymer modified, 1-component portland cement based product. Has selected aggregates to provide a smooth finished surface and special additives for ease of finishing, bonding and moisture retention. Has a smooth, rich texture, making it easy to apply and finish. Has internal drying feature permitting quick application of sealer, paint or coatings. It is light gray to blend with existing concrete. Featheredges to ¼”. Extended working time. Color controlled to blend with concrete. Extra rich for easy application and rubbing. Quick turnaround for coatings or toppings. Can be colored or stained. Always seal Pavcrete Plus when using as a finished surface.

Application: Use to rub and finish tilt wall panels, repair voids, honeycombs and form marks in poured concrete walls or precast members. Repair and resurface concrete, vertical or horizontal applications. Use to repair sidewalks, curbs, gutters, floors and walls. May be featheredged and used at ¼” thickness for light and moderate traffic. Use it as a fine finish, quick turnaround underlayment. When used for heavier traffic applications, apply at ½” thickness and replace ½ mixing water with Patchcrete Acrylic Liquid.

Thickness Per Lift: 0–¼”

Specifications:
- Application Life: 30 min
- Set Time (ASTM C-191): Initial 1½ hrs
- Set Time (ASTM C-191): Final 2½ hrs
- Compressive Strength (ASTM C-109): 3 days 2,500 psi
- Compressive Strength (ASTM C-109): 7 days 4,100 psi
- Compressive Strength (ASTM C-109): 28 days 5,100 psi
- Flexural Strength (ASTM C-348): 28 days 1,400 psi
- Bond Strength (ASTM C-1042): 28 days 1,300 psi
- Coverage: 20 lb. pail will cover approximately 24 ft² at ½” thickness and contains approximately .25 ft³.

No.  Size
PCR PCP  20 lb. pail, 100/pallet

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
SKIM COAT & SACKING

SkimWall
Description: A fast setting, smooth-textured, high strength, single component, concrete repair compound for exterior or interior concrete walls and floors. SkimWall consists of a uniform, premixed blend of Portland cements and select aggregates with polymer modification to promote lasting surface adhesion. SkimWall is used for renovation and new construction. It is intended for patching and skimming exterior concrete walls, CMU masonry block walls, tilt-up panels, pre-cast concrete structures, and other cementitious substrates to provide a smooth, even colored, monolithic cement finish. Available in different shades of gray.

<table>
<thead>
<tr>
<th>No.</th>
<th>Color</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RA SWA</td>
<td>Alaska</td>
<td>15 lb. pail, 54/pallet</td>
</tr>
<tr>
<td>RA SWP</td>
<td>Palouse</td>
<td>15 lb. pail, 54/pallet</td>
</tr>
<tr>
<td>RA SWPO</td>
<td>Portland</td>
<td>15 lb. pail, 54/pallet</td>
</tr>
<tr>
<td>RA SWSG</td>
<td>Seattle</td>
<td>15 lb. pail, 54/pallet</td>
</tr>
</tbody>
</table>

Application: With the proper water adjustment, SkimWall can also be used for filling bug holes, honeycombs, pop-outs, chamfer spalls and reveal strip repairs. SkimWall may be used on horizontal concrete in foot traffic applications, as long as it is properly sealed. May be used for interior applications over all suitable flooring materials. Is intended for multi-purpose repairs and is also formulated as a floor covering underlayment. Allows painting or sealing within 60 minutes. Longer working time - maintains workability for 30 minutes at 70°F. Mixes with water only.

Thickness: Can be installed from a featheredge to ½" in one application. Up to 2" (with the addition of #16 silica sand).

Specifications:
- Application Life: 30 min
- Set Time (ASTM C-191):
  - Initial: 45 min
  - Final: 90 min
- Compressive Strength (ASTM C-109):
  - Air Cured
    - 1 day: 2,200 psi
    - 7 days: 2,900 psi
    - 28 days: 4,500 psi
- Flexural Strength (ASTM C-348):
  - 28 days: 1,200 psi
- Bond Strength (ASTM C-3931):
  - 28 days: 500 psi
- Coverage: 15 lb. pail will cover approximately 38 ft at ⅛" thickness.

Masco FeatherPatch
Description: Engineered for a tenacious bond to concrete and cementitious materials, MASCO FeatherPatch is a fast-setting, smooth-textured, high strength, single component, Portland cement repair compound for exterior or interior concrete walls. It is designed for both renovation and new construction. Available in Light Gray and Medium Gray, MASCO FeatherPatch may be used for skimming exterior concrete walls, tilt-up panels, pre-cast concrete structures, and other cementitious substrates. MASCO FeatherPatch may be left exposed, sealed or painted.

<table>
<thead>
<tr>
<th>No.</th>
<th>Color</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS SGPLG</td>
<td>Light Gray</td>
<td>40 lb. pail, 54/pallet</td>
</tr>
<tr>
<td>MS SGPG</td>
<td>Med. Gray</td>
<td>40 lb. pail, 54/pallet</td>
</tr>
</tbody>
</table>

Application: MASCO FeatherPatch is formulated to be visually consistent with the authentic look of a smooth concrete wall. With the proper adjustment of water, MASCO FeatherPatch can be used for filling bug holes, honeycombs, popouts, snap tie holes, small recesses, chamfer spalls and reveal strip repairs. Longer working time of 20 minutes at 70°F. Re-dispersible polymer allows the mixed product to be remixed 2-3 times, without any additional water.

Thickness: Can be installed from a featheredge to ¼" in one application. Up to 2" (with the addition of #16 Dolomite sand).

Specifications:
- Application Life: 70°F
- Set Time (ASTM C-191):
  - Initial: 45 min
  - Final: 60 min
- Compressive Strength (ASTM C-109):
  - Air Cured
    - 1 day: 2,200 psi
    - 7 days: 2,900 psi
    - 28 days: 5,200 psi
- Flexural Strength (ASTM C-348):
  - 28 days: 1,200 psi
- Bond Strength (ASTM C-3931):
  - 28 days: 500 psi
- Coverage: 40 lbs. covers approximately 210 ft at a thickness of 1/16″ and up to 600 SF at a true skimcoat.

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**TROWEL HI-BUILD**

### Duraltop® Gel

**Description:** A fast setting, 2-component, polymer reinforced, non-sag, cementitious patching and repair mortar. It achieves high early compressive, flexural and bond strengths. It contains a migratory corrosion inhibitor. Non-sag, high build properties. Pre-proportioned unit.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>TAM DG</td>
<td>52 lb. pail, 48/pallet</td>
</tr>
</tbody>
</table>

**Application:** Structural repairs. Exterior or interior, above or below grade. Vertical and overhead concrete and masonry repairs.

**Thick Per Lift:**

- ¼” - 1½” vertical
- ¼” - 1” overhead

**Coverage:** One kit will yield approximately 0.4 ft³ and will cover 9.6 ft² @ ½” thickness.

**Specifications:**
- 75° F
- Application Life: 15 min
- Set Time (ASTM C-266):
  - Initial: 20 min
  - Final: 40 min
- Compressive Strength (ASTM C-109 mod.):
  - 4 hrs: 1,150 psi
  - 1 day: 2,500 psi
  - 7 days: 6,500 psi
  - 28 days: 7,000 psi
- Shear Bond Strength (ASTM C-882 mod.):
  - 7 days: 2,100 psi
  - 28 days: 2,475 psi
- Flexural Strength (ASTM C-78):
  - 1 day: 2,000 psi
  - 28 days: 2,180 psi
- Splitting Tensile Strength (ASTM C-496):
  - 28 days: 750 psi

### Speed Crete® PM

**Description:** A 1-component, polymer-modified, ready-to-use, cement based concrete and masonry patching compound that requires only potable water for mixing. Easy mixing and handling. Excellent workability. It contains a migratory corrosion inhibitor. Patch from featheredge to 2¾”. After initial set, may be shaved to conform to contours of the surrounding surface. Develops high strength and tenacious bond. Excellent resistance to freeze-thaw and weathering.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAM SCPM</td>
<td>50 lb. bag, 48/pallet</td>
</tr>
</tbody>
</table>

**Application:** Repair interior or exterior, above and below grade vertical and overhead surfaces without forming.

**Thick Per Lift:**

- 0–2¾” vertical
- 0–2” overhead

**Coverage:** One 50 lb. bag yields approximately 0.5 ft³ and will cover 12 ft² @ ½” thickness.

**Specifications:**
- 75° F
- Application Life: 10–15 min
- Set Time (ASTM C-266):
  - Initial: 15 min
  - Final: 40 min
- Compressive Strength (ASTM C-109):
  - 3 hrs: 2,000 psi
  - 1 day: 3,500 psi
  - 7 days: 4,000 psi
  - 28 days: 5,000 psi
- Shear Bond Strength (ASTM C-882):
  - 28 days: 2,475 psi
- Flexural Strength (ASTM C-78):
  - 7 days: 650 psi
  - 28 days: 1,300 psi
- Splitting Tensile Strength (ASTM C-496):
  - 7 days: 450 psi
  - 28 days: 550 psi

### Structural Concrete VO

**Description:** A high strength, one component, permanent concrete repair material for vertical and overhead structural repairs. It produces a repair which is dimensionally stable, develops an integral bond to the existing concrete, and restores structural integrity within hours of placement. It has a very low chloride ion permeability. Moisture sensitive coatings can be applied in 8–24 hours.

<table>
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<tr>
<th>No.</th>
<th>Size</th>
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<tr>
<td>FS SCVO</td>
<td>50 lb. pail, 36/pallet</td>
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</table>

**Application:** Recommended for use of rapid repair of loading bearing walls, ceilings and other structural members and rapid repairs during shutdown. Can use for cold weather repairs. Use for marine and hydraulic structure repairs as well. It can be troweled vertically or overhead. It can be coated in 8–24 hours. 35°–90°F application range.

**Thick Per Lift:**

- ⅛” – 1½” vertical
- ⅛” – 1” overhead

**Coverage:** One bag yields approximately .42 ft³ and will cover 10 ft² at ½” thickness.

**Specifications:**
- 72° F
- Application Life: 15 min
- Set Time (ASTM C-226):
  - Initial: 30 min
  - Final: 60 min
- Compressive Strength (ASTM C-109):
  - 3 hrs: 2,000 psi
  - 1 day: 3,500 psi
  - 7 days: 4,000 psi
  - 28 days: 5,000 psi
- Shear Bond Strength (ASTM C-882):
  - 28 days: 1,500 psi
- Flexural Strength (ASTM C-78):
  - 3 days: Less than 600 coulombs
  - 28 days: Less than 400 coulombs

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Spray Mortar**

**Description:** A 1-component fiber reinforced repair mortar applied by low pressure spray or hand trowel for concrete repairs. Contains a migratory corrosion inhibitor. Freeze-thaw resistant.

**Application:** Vertical and overhead concrete repairs, interior and exterior use. Bridge, parking garages, and tunnels. Manholes, pipelines, dams and other water structures.

**Thickness Per Lift:**
- ¾”–2” vertical
- ¾”–1” overhead

**Coverage:** One 50 lb. bag yields approximately .45 ft³ and will cover approximately 5.4 ft² @ 1” thickness.

**Specifications:**
- Application Life: 75°F
- Application Life: 30 min
- Set Time (ASTM C-266):
  - Initial: 1 hr
  - Final: 2 hrs
- Compressive Strength (ASTM C-109):
  - 1 day: 3,200 psi
  - 7 days: 6,200 psi
  - 28 days: 8,500 psi
- Shear Bond Strength (ASTM C-882):
  - 28 days: 3,250 psi
- Flexural Strength (ASTM C-78):
  - 7 days: 1,500 psi
  - 28 days: 1,650 psi
- Splitting Tensile Strength (ASTM C-496):
  - 7 days: 480 psi
  - 28 days: 660 psi

---

**Form and Pour / Pump**

**Description:** A 1-component, shrinkage compensated concrete repair mortar. Can be extended with pea gravel for deeper repairs.

**Application:** On grade, above and below grade on concrete. Horizontal surfaces and formed vertical and overhead surfaces. Repair material for parking facilities, industrial plants, walkways, bridges, tunnels, dams and balconies. Filler for voids and cavities.

**Thickness Per Lift:**
- ¼”–3” neat
- 3”–8” extended

**Coverage:** One 50 lb. bag yields approximately 0.42 ft³ and will cover approximately 5 ft² @ 1” thickness.

**Specifications:**
- Application Life: 30 min
- Set Time (ASTM C-266):
  - Initial: 1 hr
  - Final: 2 hrs
- Compressive Strength (ASTM C-109):
  - 1 day: 3,000 psi
  - 7 days: 6,200 psi
  - 28 days: 8,500 psi
- Slant Shear Bond Strength (ASTM C-882):
  - 1 day: 1,730 psi
  - 7 days: 2,500 psi
  - 28 days: 2,650 psi
- Flexural Strength (ASTM C-78):
  - 1 day: 560 psi
  - 7 days: 780 psi
  - 28 days: 1,140 psi
- Splitting Tensile Strength (ASTM C-496):
  - 1 day: 940 psi
  - 7 days: 1,450 psi
  - 28 days: 1,840 psi

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
### LIQUID DAMPROOFERS & WATERPROOFERS

<table>
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<th>CODE</th>
<th>PRODUCT</th>
<th>DESCRIPTION</th>
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<th>CONCRETE</th>
<th>PARGED BLOCK</th>
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<tbody>
<tr>
<td>TAM 5G75</td>
<td>DEHYDRATINE 75</td>
<td>NON FIBERED ROLL GRADE</td>
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<tr>
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<td>DEHYDRATINE 85</td>
<td>FIBERED BRUSH GRADE</td>
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<td>TAM 5G95</td>
<td>DEHYDRATINE 95</td>
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#### DAMPROOFING EMULSION

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<td>TAM 5G6</td>
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#### DAMPROOFING SOLVENT

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<th>DESCRIPTION</th>
<th>UNIT</th>
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<th>2ND SF/GAL</th>
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#### WATERPROOFING ELASTOMERIC

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<tbody>
<tr>
<td>TAM 5GSRG</td>
<td>STRATALEASE RG</td>
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#### APPLICATIONS:
DAMPROOFING STEM WALLS
WATERPROOFING BELOW GRADE BASEMENTS
CAVITY WALL DAMPROOFING
WATERPROOFING CONCRETE DECKS

### FOUNDATION DRAINAGE BOARDS

<table>
<thead>
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<th>CODE</th>
<th>PRODUCT</th>
<th>DESCRIPTION</th>
<th>ROLL</th>
<th>SIZE</th>
<th>SF</th>
<th>LBS</th>
<th>QTY</th>
<th>THICKNESS</th>
<th>FLOW RATE</th>
<th>PSI</th>
<th>MAX DEPTH</th>
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<tbody>
<tr>
<td>DRB 2000</td>
<td>DELTA DRAIN 2000</td>
<td>NON WOVEN FABRIC</td>
<td>4' X 50'</td>
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<td>DRB 6000</td>
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</table>

#### APPLICATIONS:
FOUNDATION DRAINAGE BOARD
PROTECTION Coarse FOR WATERPROOFING

### CONCRETE / PARGED BLOCK

- **VERTICAL**
- **DELTA DRAIN 2000/6000**
- **AQUADRRAIN 15X**
- **HORIZONTAL**
- **AQUADRRAIN 20H**
- **CURED SURFACE**
  - **ROLL/BRUSH STRATALEASE RG**
  - **TROWEL STRATALEASE TG**
- **DAMPROOFING**
  - **EXTERIOR BELOW GRADE**
    - **ROLL/BRUSH DEHYDRATINE 4**
    - **ROLL DEHYDRATINE 5**
    - **GREEN SURFACE BRUSH DEHYDRATINE 85**
  - **CAVITY WALL ABOVE GRADE**
    - **TROWEL DEHYDRATINE 95**
    - **ROLL DEHYDRATINE 75**
    - **BRUSH DEHYDRATINE 85**
DAMP PROOFING EMULSION

Dehydratine® 75

Description: A water based compound designed to dampproof concrete and masonry. VOC compliant and effective above and below grade. Highly effective and is easily applied by trowel or spray. Has good weathering and abrasion resistance. Since all the Dehydratine products are clay type emulsions, they resist flow or sag even when exposed to high ambient temperatures. Does not contain solvents. Does not present a fire hazard and is environmentally safe. Adheres tenaciously to damp or “green” surfaces. Breathes to allow water vapor to escape and reduce blistering. Flexible and will not crack as a result of normal contraction and expansion. Asbestos free.

Application: Used to dampproof concrete and masonry. Effective dampproofing product on roofing materials such as fiber glass fabric and metal. Can be used over most metals to protect against rust and corrosion.

Applicable Standards:
ASTM D-1227 Type III. Complies with national AIM VOC regulations.

Coverage: Coverage rates are approximate and for estimating purposes only. Surface temperature, porosity and texture will determine actual material requirements.

One Coat Application (not more than):
- 33 ft²/gal.

Two Coat Application:
- 1st coat 50 ft²/gal.
- 2nd coat 50 ft²/gal.

DAMPPROOFING SOLVENT

Dehydratine® 4

Description: Designed for use as a dampproofing compound on concrete and masonry, both below and above grade. Non-fibrated and specially treated to increase its water resistance. Apply by brush or spray. Offers excellent performance even in hot weather. Flexible and will not crack as a result of normal expansion and contraction. Free from asbestos.

Application: Utilized to dampproof concrete.

Applicable Standards:

Coverage: Not more than 75 ft²/gal. for first coat. Not more than 125 ft²/gal. for second coat. 2 coats required.
DAMPPROOFING SOLVENT

**Dehydratine® 6**

**Description:** Designed for use as a dampproofing compound on concrete and masonry, both below and above grade. Fiber-reinforced for application by trowel. Offers excellent performance even in hot weather. Flexible and will not crack as a result of normal expansion and contraction. Free from asbestos.

**Application:** Utilized to dampproof concrete.

**Applicable Standards:** Federal Specifications SS-C-153 Type I Class B. ASTM C-4586 Type I. ASTM D-3409. Complies with national AIM VOC regulations.

**Coverage:** Not more than 25 ft²/gal in a 2 coat application (50 ft²/gal./coat).

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAM 5G6</td>
<td>5 gal. pail, 45 lbs., 36/pallet</td>
</tr>
</tbody>
</table>

WET PATCH ROOF CEMENT

**Wet Patch Roof Cement**

**Description:** A premium compound for sealing roof leaks on wet surfaces. It patches holes and cracks even in a driving rain or under water, and is so versatile it may be used in both wet or dry weather, hot or cold. It is especially easy to spread in cold temperature and is made from heavy-bodied asphalt. Used to repair holes, cracks, and splits on composition, mineral surface cap sheet, asphalt coated, SBS modified, metal and masonry roofs.

**Application:** Seals leaks and openings around flashings, chimneys, vents, skylights, joints in metal edging and gutters. Repair cracks, breaks, tears, and holes by applying 1/8” to 1/4” thick with a trowel or putty knife. Work the cement into the crack or break and spread it 2”-4” beyond, feathering the edges. If damaged area is over 1/4” wide or 2” long, embed polyester fabric or open mesh glass fabric to reinforce the cement, then cover with the additional cement.

**Applicable Standards:** Meets or exceeds all requirements of ASTM Specification D-4586 Type I and 100% wet surface adhesion as per ASTM D-3409.

**Consistency @ 77° F:** Soft, easily trowelable paste

**Pliability @ 32° F:** No cracking or separation

**Appearance:** Black Mastic

**Base:** Refined asphalt

**Color:** Black

**Flash Point:** 105° F

**Freezability:** Does not freeze

**Maximum VOC:** 250 g/l

**Maximum VOS:** 2.5 lbs/gal

**Solids By Weight:** 80%

**Weight Per Gallon:** 9.1-9.5 lbs

**Coverage:** Coverage is approximately 12.5 ft²/gal. applied 1/8” thick.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD HE208-1</td>
<td>1 gal. pail, 10.5 lbs.</td>
</tr>
<tr>
<td>CD HE208-5</td>
<td>5 gal. pail, 51 lbs., 36/pallet</td>
</tr>
</tbody>
</table>

Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
LDC 60

Description: A single component, moisture cure modified polyurethane waterproofing membrane. LDC 60 cures to form a seamless, elastomeric waterproof membrane that is positively bonded to the substrate. The inherent toughness and elasticity of LDC 60 enables it to bridge small structural or shrinkage cracks which may develop in the substrate. Its tenacious bond to concrete substrates prevents lateral water migration.

Application: Typically applied by roller, or squeegee. Designed for below-grade vertical and horizontal surfaces, as well as, subsurface applications above grade. Typical application is between the structural slab and wearing course on parking garages, plaza decks, balconies, roof decks, terraces, mechanical rooms, and fountains. Other applications include concrete foundation walls, parged block foundation walls, planters, tunnels, and earth-covered structures.

Coverage: Apply LDC 60 at 25 sq.ft. per gallon or as required to obtain 0.060" thickness, to the entire area to receive waterproofing, including over all detail coats. On horizontal deck surfaces, the preferred method of application is with a notched squeegee. On vertical surfaces, the preferred method of LDC 60 application is with a chemical resistant, heavy nap roller. Vertical applications typically require two passes to achieve the proper material thickness.

Specifications:
- LDC60V
- Color: Black
- Tack free/Cure Time: 16 hrs/36 hrs
- Solids Content: 90%
- Tensile Strength: 300 psi
- Elongation: 650%
- Adhesion to Concrete: 20 pli
- Shore "A" Hardness: 25
- Shore "00" Hardness: 62-64
- Water Vapor Permeance: .09 perms
- Tear Resistance: 80 pli
- Modulus at 100%: 80 pli
- Water Absorption: 0.7%

---

HydroFix

Description: Hydrofix is a 100% solids, solvent-free, cold fluid-applied, single-component, moisture reacted, modified elastomeric polymer that cures to form a flexible, monolithic, waterproof membrane on vertical and horizontal surfaces. HydroFix is a fast curing waterproofing membrane designed to provide a reinforced cold fluid alternative to hot applied rubberized asphalt membrane systems & pre-formed waterproofing sheeting systems. HydroFix cures through reaction with both atmospheric and substrate moisture to provide a “seamless”, impervious membrane.

Application: HydroFix comes in a single viscosity for both horizontal and vertical surfaces. Typical applications are between structural slab and wearing course on parking garages, plaza decks, balconies, roof decks, terraces, mechanical equipment rooms, commercial kitchens and shower stalls. Ideally suited for waterproofing below-grade foundation walls, tunnels, planters, protected roof membrane systems, and other areas where a seamless, elastomeric waterproofing is required.

Applicable Standards:

Hydrofix meets the specification criteria for ASTM C836. This product contains no listed Proposition 65 listed materials.

Specifications:
- Color: Black
- Setting Time at 77° F
  - 60 mil Tack-free Set: 1 hour
  - 60 mil Initial Through Set: 4 hours
- Solids Content: 100%
- Low Temp. Flexibility: No Cracking
- Low Temp. Crack Bridging: No Cracking
- Hardness (Shore A): 10 (+/-3)
- Elongation: 350%
- Modulus at 100%: 80 pli
- Water Vapor Transmission Rate: 0.06 perms
- Max V.O.C. Content: < 40 grams/liter
**Delta Drain 2000 & 6000**

**Description:** Delta Drain products are unique one-sided drainage composites with superior flow capacity, high compression strength and creep resistance.

**Delta Drain 2000** composite with 10,000 psf compressive strength is an economical choice for moderate confining pressure drainage and retaining walls for residential and commercial buildings.

**Delta Drain 6000** with 15,000 psf compressive strength meets the demands of deep foundation wall drainage, and drainage under high overburden loads.

**Application:** Tunnel construction, drains off water from underground walls and structures by placing sheets vertically. Also used on retaining walls and bridge abutments.

**Specifications:**

**Vertical Water Flow Rate** (ASTM D-4716):
- Delta Drain 2000: 18 gal/min/ft
- Delta Drain 6000: 18 gal/min/ft

**Horizontal Water Flow Rate**:
- Delta Drain 2000: N/A
- Delta Drain 6000: 3.2 gal/min/ft

**Thickness**:
- Delta Drain 2000: 0.4"
- Delta Drain 6000: 0.4"

**Polymer Composition**:
- Delta Drain 2000: Polypropylene
- Delta Drain 6000: Polypropylene

**Compressive Strength** (ASTM D-1621):
- Delta Drain 2000: 11,000 psf
- Delta Drain 6000: 15,000 psf

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
### Sheet Waterproofing Membranes

<table>
<thead>
<tr>
<th>Code</th>
<th>Product</th>
<th>Description</th>
<th>Dim</th>
<th>Size</th>
<th>Lbs</th>
<th>Plt</th>
<th>Tmp</th>
<th>Adm</th>
<th>Vrt</th>
<th>Roof</th>
<th>Slab</th>
<th>R</th>
<th>Auger</th>
<th>Cast</th>
<th>Confine</th>
<th>Mint</th>
<th>Below Grade</th>
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<th>Cast</th>
<th>Confine</th>
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<tbody>
<tr>
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<td>ENVirosheet</td>
<td>Rubberized Asphalt</td>
<td>3' x 67 5</td>
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<td>Bentonite Butyl</td>
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<td>Bentonite Board</td>
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<td>VolteX OR</td>
<td>Bentonite Roll</td>
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<td>AC DS</td>
<td>VolteX DS</td>
<td>Bentonite/Houpe Roll</td>
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<td>NO</td>
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<td>NO</td>
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</table>

**Applications:**
- Below Grade Waterproofing
- Split Slab Waterproofing
- Property Line Waterproofing
- Waterproofing Concrete Slabs

**Accessories:**
- AC 3BS: 3 GL BENTOSEAL
- AC HT: 32 LF HYDROBAR TUBE
- AC SM200: 5 GL LIQUID FLASHING
- AC 5GMastic: 5 GL ENVirosheet Mastic
- AC SW: SWELLtite
- AC TAPE: 125 LF RL SWELLtite Tape

**For:**
- VOLclay / VOLteX / SWELLtite

**Consult Specifications Sheets for Complete Technical, Installation and Surface Prep Procedures**

### Foundation Drainage Boards

<table>
<thead>
<tr>
<th>Code</th>
<th>Product</th>
<th>Description</th>
<th>Dim</th>
<th>Size</th>
<th>Lbs</th>
<th>Plt</th>
<th>Thk</th>
<th>Nees</th>
<th>Flow Rate</th>
<th>PSI</th>
<th>Vrt</th>
<th>Roof</th>
<th>Slab</th>
<th>R</th>
<th>Auger</th>
<th>Cast</th>
<th>Parged</th>
<th>Filled</th>
<th>Confine</th>
<th>Mint</th>
<th>Below Grade</th>
<th>Split</th>
<th>Soldier</th>
<th>Sheet</th>
<th>Auger</th>
<th>Cast</th>
<th>Confine</th>
<th>Mint</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC AD15X</td>
<td>AQUADRRAIN 15X</td>
<td>Non Woven Fabric</td>
<td>4' x 52</td>
<td>208 SF</td>
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<td>AC AD20H</td>
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</tbody>
</table>

**Applications:**
- Foundation Drainage Board
- Split Slab Waterproofing
- Protection Course for Waterproofing

### Surfaces Condition Application Products

- **Green Concrete**
  - Vertical: Walls
  - Horizontal: Split Slab
  - Special Applications: Salt Water
  - Contaminated Soils
  - Protection Course: Drain Boards

- **Fresh Concrete or Gunite / Shotcrete**
  - Horizontal: Underslab
  - Vertical: Laging
  - Special Applications: Salt Water
  - Contaminated Soils
  - Protection Course: Drain Boards

- **Cured Concrete**
  - Vertical: Walls
  - Horizontal: Split Slab
  - Special Applications: Salt Water
  - Contaminated Soils
  - Protection Course: Drain Boards

- **Special Applications**
  - Vertical: VOLteX OR
  - Contaminated Soils
  - Protection Course: Drain Boards

**For:**
- VOLclay / VOLteX / SWELLtite

**Consult Specifications Sheets for Complete Technical, Installation and Surface Prep Procedures**

---

**Questions? Call for Customer Service:**
- Oregon (800) 537-3407
- Washington (800) 537-6216
Envirosheet

Description: The Envirosheet system is a complete waterproofing system composed of a durable sheet membrane, a primer, and a flexible detailing mastic. Envirosheet is a 60 mil thick sheet membrane composed of a 4 mil cross laminated polyethylene sheet laminated to a thick layer of rubberized asphalt waterproofing compound. Envirosheet is formulated for low temperature applications down to 30° F. The product is wound onto rolls with a disposable silicone coated release paper. The edge of the sheets have a Quick Strip sealing tape that allows excellent seam sealing ability.

Application: Envirosheet is used for waterproofing concrete, masonry and wood. It is ideal for waterproofing foundation walls, tunnels and split slab construction such as plazas and parking decks either above or below grade. Envirosheet can be used in either interior or exterior applications. See technical bulletin for application instruction.

Coverage: 36" x 66.7'/roll/200 ft²

Membrane:
- Side laps 2⅛"
- End laps 5" 
- Net area 94%

Primer:
- 200 ft²/gal
- Wet coverage 5 mils
- Dry coverage approx. 4 mils

Mastic:
- ½" bead 77 lf/gal

Liquid Flashing:
- ¾" fillet 25 lf/gal
- ¾" flash 9 lf/gal
- 90 mil flashing 15 ft²/gal

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Swelltite**

**Description:** A tough composite product that provides dual waterproofing protection. It combines the proven active waterproofing benefits of sodium bentonite with the strength and puncture resistance of a geomembrane liner. It prevents water intrusion with a natural microscopic platelet structure that expands upon contact with water. The expansion, confined under pressure, forms an impervious membrane lasting for the life of the structure. Providing an additional waterproofing layer is a tough, flexible geomembrane liner. It functions both as an outer layer of waterproofing and a protection course. It is manufactured to a minimum 90 mil thickness. It is a composite of a white 12 mil HDPE geomembrane liner integrally bonded to 78 mils of sodium bentonite with a clear release film attached.

**Application:** Designed for below-grade vertical and horizontal structural foundation surfaces, as well as, above grade split-slab construction. Typical below-grade applications include backfilled concrete walls, masonry block walls, earth-covered roofs, and tunnels. Typical above grade split-slab construction applications include plaza decks, parking decks, and balconies. Additionally, Swelltite can be used for interior split-slab applications for mechanical rooms, kitchens, and laboratory facilities. Applications may include structures under continuous or intermittent hydrostatic pressure.

**Coverage:**
40” x 37’-9”/roll/125 ft²

**Membrane:**
- Side Laps 2”
- End Laps 2”
- Net Area 94%

**Primer:**
250 ft²/gal.

**Liquid Flashing:**
- ¾” fillet 25 lf/gal.
- ¾” flash 9 lf/gal.
- 90 mil. flashing 15 ft²/gal.

---

**No.** | **Size** | **Coverage**
---|---|---
AC SW  | 40” x 37’-9” 125ft², 81 lbs., 25/pallet | 40” x 37’-9”/roll/125 ft²

**Accessories**

**Primer:**
AC 5GA3000WB | 5 gal. pail, 50 lbs.

**Bento Seal Trowel Seal:**
AC 3GBS | 3 gal. pail, 35 lbs., 75/pallet

**Liquid Flashing:**
AC SM2000 | 5 gal. pail, 50 lbs.

**Seam Type:**
AC TAPE | 2” x 125’

**Termbar:**
CT TEBBAR | 10’, 500’/ctn, 58 lbs.

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Volclay Panels

**Description:** Panels are composed of specially treated high swelling granular sodium bentonite, sealed inside a smooth face of corrugated kraft board, at the rate of one pound per square foot. Volclay Bentonite is composed of a minimum of 90% montmorillonite. Volclay Bentonite will not wear out or deteriorate with age. Type 1-C Panels are coated with a temporary water resistant resin. This resin is designed to prohibit prehydration due to ground water or precipitation prior to backfilling or concrete placement.

**Application:** Volclay Panels are designed for waterproofing below grade vertical and horizontal structural surfaces. Typical applications include property line installations, free standing walls, earth covered roofs, and under slab, grade beams and footings. Applications may include structures under hydrostatic pressure.

**Bentoseal** patented trowel grade sodium bentonite compound used as a detailing mastic around penetrations and corner transitions.

**Hydrobar Tube** is a water soluble plastic tubing filled with Volclay Bentonite. It is used as a convenient method of adding extra bentonite at the footing/wall intersection.

**Applicable Standards:** Volclay Panel System conforms to Federal G.S.A. Public Buildings Service Guide Specification number 07130 covering bentonite waterproofing as an option to five ply membrane waterproofing.

**Coverage:**
- 48” x 48”/16 ft²

**Panel:**
- Side laps to lines 2”
- End laps to lines 2”
- Net area, 94%

**Mastic:**
- ½” bead 77 lg/gal.

---

**Table:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type 1C Panels:</strong></td>
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<td>AC VPC</td>
<td>48” x 48” x 3/16” thick, 21 lbs., 125-panels/pallet, 2,000 ft²</td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
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</tr>
<tr>
<td>Bentoseal:</td>
<td></td>
</tr>
<tr>
<td>AC 3GBS</td>
<td>3 gal. pail, 36 lbs., 72/pallet</td>
</tr>
<tr>
<td>Hydrobar Tube:</td>
<td></td>
</tr>
<tr>
<td>AC HT</td>
<td>2” x 24”, 32/carton, 50 lbs., 50/pallet</td>
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<tr>
<td>Termbar:</td>
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<tr>
<td>CT TERMBAR</td>
<td>10’, 500’/ctn, 58 lbs.</td>
</tr>
</tbody>
</table>

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Voltex DS

**Description:** A highly effective waterproofing membrane designed for below grade applications. Voltex DS is a composite of two high strength geotextiles, 1.1 pounds of sodium bentonite per square foot, and a HDPE Liner integrally bonded to the non-woven geotextile. The high swelling, low permeability sodium bentonite is encapsulated between the two geotextiles. Voltex DS works by forming a low permeability membrane upon contact with water. When wetted, unconfined bentonite can swell up to 15 times its dry volume. When confined under pressure the swell is controlled, forming a dense, impervious waterproofing membrane. The swelling action on the bentonite can self-seal small concrete cracks caused by ground settlement, concrete shrinkage, or seismic action.

**Application:** Designed for below grade, vertical and horizontal structural foundation surfaces. Typical applications include backfilled concrete walls, earth covered roofs, structural slabs, tunnels, and property line construction. Property line construction applications include soldier pile and lagging, metal sheet piling, shotcrete and stabilizes earth retention walls. Applications may include structures under continuous or intermittent hydrostatic pressure.

**Specifications:**
- **Peel Adhesions to Concrete** (ASTM D-903): 15 lbs./in
- **Hydrostatic Pressure Resistance** (ASTM D-5385): 231 ft
- **Permeability Rating** (ASTM-5084): $1 \times 10^{12}$ cm/sec
- **Tensile Strength** (ASTM D-4632): 120 lbs.
- **Puncture Resistance** (ASTM D-4833): 140 lbs.
- **Bentonite Mass Per Unit Area** (ASTM D-3776): 1.1 lbs./ft²
- **Coverage**: 4’ x 14.5’ rolls/58 ft²
- **Rolls**:
  - Side laps 4”
  - End laps 4”
  - Net area 90%
- **Mastic**: ½” bead 77 lb/gal.

**Accessories:**
- **Bentoseal**: AC 3GBS 3 gal. pail, 36 lbs., 72/pallet
- **Hydrobar Tubes**: AC HT 2’ x 24”, 32/ctn, 50 lbs., 50/pallet
- **Termbar**: CT TERMBAR 10’, 500/ctn, 58 lbs.

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Aquadrain 15X, 20H

Description: Aquadrain drainage mat is a prefabricated soil drainage structure designed to replace aggregate drain in subsurface drainage applications. Reduces hydrostatic pressure against underground structures and aids in dewatering saturated soils. Compliments conventional waterproofing systems by intercepting water before it reached the wall. A two part prefabricated material consisting of a formed polymeric core covered on one side with a geotextile filter fabric. The fabric allows water or other liquids or gases to pass into the drain core while restricting the movement of soil particles which might clog the core. The core allows water to flow to designated drainage.

Application: Aquadrain 15X is a single sided drain with fabric on one side of the core to allow water entry. The other side of the core is flat to fit against underground walls or waterproofing material. Typical applications include foundation walls, retaining walls, bridge abutments, leachate detection systems, and planters.

Aquadrain 20X is specifically designed for horizontal applications requiring high core strength and high fabric tensile strength. Provides maximum flow in low slope areas. Typical applications are parking and plaza decks where large vehicular loads will be experienced. The fabric allows direct placement of concrete without clogging and will withstand walking traffic during construction.

Typical Fabric Properties:

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<thead>
<tr>
<th>Material (ASTM D-3776):</th>
<th>AquaDrain 15X Polypropylene</th>
<th>AquaDrain 20H Polypropylene</th>
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</thead>
<tbody>
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<td>AquaDrain 20H 6.1 oz/yd²</td>
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<td>Flow Rate (ASTM D-4491):</td>
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<td>AquaDrain 20H 60 gpm/ft²</td>
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<tr>
<td>Material:</td>
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<td>AquaDrain 20H Polystyrene</td>
</tr>
<tr>
<td>Thickness (ASTM D-1777):</td>
<td>AquaDrain 15X 7/16”</td>
<td>AquaDrain 20H 7/16”</td>
</tr>
<tr>
<td>Compressive Strength (ASTM D-1621 mod.):</td>
<td>AquaDrain 15X 15,000 lbs/ft²</td>
<td>AquaDrain 20H 18,000 lbs/ft²</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>15X:</th>
<th>20H:</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>AC AD15X</td>
<td>AC AD20H</td>
</tr>
<tr>
<td>4’ x 52’ rl, 208 ft²/rl., 52 lbs., 6/pallet</td>
<td>4’ x 52’ rl, 208 ft²/rl., 39 lbs., 6/pallet</td>
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<td></td>
</tr>
</tbody>
</table>

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
## CHART

### CEMENT WATERPROOFING

<table>
<thead>
<tr>
<th>CODE</th>
<th>PRODUCT</th>
<th>SIZE</th>
<th>UNIT</th>
<th>POLYMER</th>
<th>LIQUID</th>
<th>QTY</th>
<th>PLT</th>
<th># APP</th>
<th>1ST</th>
<th>2ND</th>
<th>RECOAT</th>
<th>TIME</th>
<th>FINAL</th>
<th>CURE</th>
<th>POS</th>
<th>NEG</th>
<th>SIDE</th>
<th>SIDE</th>
<th>WATER</th>
<th>RESIST</th>
<th>AGE</th>
<th>CONC</th>
<th>CONC</th>
<th>BRICK</th>
<th>BLOCK</th>
<th>MAN</th>
<th>HOLES</th>
<th>TROWEL</th>
<th>BRUSH</th>
<th>SPRAY</th>
<th>APPR</th>
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<tbody>
<tr>
<td>TAM 1G7T TAMMOSEAL</td>
<td>60 LB</td>
<td>2</td>
<td>1 GAL</td>
<td>48</td>
<td>2</td>
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<td></td>
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<tr>
<td>XY CON XYPEX CONCENTRATE</td>
<td>50 LB</td>
<td>1</td>
<td>WATER</td>
<td>50</td>
<td>2</td>
<td>300</td>
<td>300</td>
<td>8-24HR</td>
<td>14 DAY</td>
<td>YES</td>
<td>YES</td>
<td>175PS@405’HEAD</td>
<td>7 DAY</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>-</td>
<td>YES</td>
<td>YES</td>
<td>NSF</td>
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<tr>
<td>TAM K11(G.W) HEYDI K-11</td>
<td>60 LB</td>
<td>2</td>
<td>1 GAL</td>
<td>48</td>
<td>2</td>
<td>200</td>
<td>200</td>
<td>24 HR</td>
<td>7 DAY</td>
<td>YES</td>
<td>YES</td>
<td>200PS@460’HEAD</td>
<td>7 DAY</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
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### APPLICATIONS:
- WATERPROOFING CONCRETE AND MASONRY
- POSITIVE AND NEGATIVE WATERPROOFING
- CEMENTITIOUS WATERPROOF COATING COMPATIBLE WITH CONCRETE
- SAFE AND EASY TO APPLY AND CLEAN UP
- WORKS WELL IN WATER SUBMERSION APPLICATIONS AFTER CURE

### ADMIXTURES:
- TAM 1G7T TAMMOSEAL ADMIX
- TAM 1GSB K-11 ADMIX

### APPLICATION CONDITION / AGE / SURFACE

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>CONDITION</th>
<th>AGE / SURFACE</th>
<th>PRODUCTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSITIVE SIDE EXTERIOR WALL</td>
<td>ABOVE GRADE</td>
<td>CURED SURFACE</td>
<td>TAMMOSEAL</td>
</tr>
<tr>
<td>BELOW GRADE</td>
<td>GREEN SURFACE</td>
<td>XYPEX CONCENTRATE</td>
<td></td>
</tr>
<tr>
<td>NEGATIVE SIDE INTERIOR WALL</td>
<td>BELOW GRADE</td>
<td>CURED SURFACE</td>
<td>K-11 XYPEX CONCENTRATE</td>
</tr>
</tbody>
</table>
Tamoseal

**Description:** A portland cement based waterproofing material for concrete and masonry. Its formulation is similar to concrete and becomes an integral part of the wall when properly applied. It fills and seals the pores and voids in the surface but still allows full breathing.

**Application:** Tamoseal waterproofs and decorates all masonry and concrete surfaces, interior and exterior, above and below grade. It may be effectively applied to concrete block, brick, stone, precast concrete, formed concrete, stucco, cement plaster or any other properly prepared and structurally sound concrete and masonry surface. Typical applications include reservoirs, water tanks, tunnels, foundations, bridges, parapets, building walls or other surfaces subject to water penetration. It is normally applied to the positive side but may be applied to the negative side when hydrostatic pressures are low.

**Applicable Standards:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>TAM TSG</td>
<td>Gray</td>
</tr>
<tr>
<td>TAM TSW</td>
<td>White</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td></td>
</tr>
<tr>
<td>50 lb. bag, 48/pallet</td>
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</table>

<table>
<thead>
<tr>
<th>Liquid</th>
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</thead>
<tbody>
<tr>
<td>H 1G7T</td>
<td>1 gal. pail, 6/ctn, 60 lbs.</td>
</tr>
<tr>
<td>H 5G7T</td>
<td>5 gal. pail, 50 lbs., 36/pallet</td>
</tr>
</tbody>
</table>

**Specifications:**
- **Compressive Strength (ASTM C-109):**
  - 7 days: 4,740 psi
  - 28 days: 6,810 psi
- **Flexural Strength (ASTM C-348):**
  - 7 days: 385 psi
  - 28 days: 890 psi
- **Tensile Strength (ASTM C-190):**
  - 7 days: 346 psi
  - 28 days: 410 psi
- **Coverage:**
  - First coat at 225 ft²/mixed 50 lb. unit
  - Second coat at 450 ft²/mixed 50 lb. unit

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Xypex Concentrate

Description: XYPEX is manufactured in the form of a dry powder compound consisting of Portland cement, very fine treated silica sand and various active proprietary chemicals. When mixed with water and applied as a cementitious coating, the active chemicals in XYPEX cause a catalytic reaction which generates a non-soluble crystalline formation of denritic fibers within the pores and capillary tracts of concrete. The concrete itself becomes permanently sealed against the penetration of water or liquids from any direction. Advantages over other types of waterproofing is that this product can waterproof underground structures from the inside against hydrostatic pressure. By the process of osmosis and because the chemicals in XYPEX have an affinity with water, the crystalline formation migrates throughout the pores and capillary tracts of concrete even against strong hydrostatic pressure.

Application: XYPEX is a unique chemical treatment for the waterproofing and protection of concrete. Among its many uses, is suitable for waterproofing reservoirs, sewage and water treatment tanks, tunnels, manholes, underground vaults, foundation walls and parking decks. It can be used on either poured in place concrete or concrete block and can be applied to either the interior or exterior surface with equal results.

Applicable Standards: Approved by the National Sanitation Foundation (NSF) for potable water.

Specifications:
- 72°F
- Application Life: 30 min
- Recoat Time: 8–24 hrs
- Final Cure: 14 days
- Compressive Strength (ASTM D-695):
  - 3 days: 2,900 psi
  - 28 days: 5,100 psi
- Bond Strength (ASTM C-882):
  - 28 days: 820 psi
- Tensile Strength (ASTM D-638):
  - 28 days: 770 psi
- Vapor Permeability (ASTM E-96):
  - 28 days: 0.075 perms
- Coverage:
  - One coat should be applied as a thickness of just under 1/16” when a second coat is required it should be applied after the first coat has reached its initial set but is still “green”.
  - For normal surface applications coverage per coat is 1.5 lbs. per sq. yd.

Gamma Cure

Description: A curing agent designed specifically for Xypex crystalline waterproofing products. The use of Gamma Cure may eliminate the need for water curing the Xypex coating in some cases. Consult manufacturer for specific recommendations.

Specifications:
- 72°F
- Application Life: 30 min
- Recoat Time: 8–24 hrs
- Final Cure: 14 days
- Compressive Strength (ASTM D-695):
  - 3 days: 2,900 psi
  - 28 days: 5,100 psi
- Bond Strength (ASTM C-882):
  - 28 days: 820 psi
- Tensile Strength (ASTM D-638):
  - 28 days: 770 psi
- Vapor Permeability (ASTM E-96):
  - 28 days: 0.075 perms
- Coverage:
  - One coat should have a thickness of just under 1/16” when a second coat is required it should be applied after the first coat has reached in initial set but is still “green”.
  - For normal surface applications coverage per coat is 1.5 lbs. per sq. yd.

---

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
K-11 Hey’Di

**Description:** A breathable, two part, polymer modified, cement based system for waterproofing concrete and masonry. Has a texture and consistency similar to concrete and may be brush or spray applied. Becomes an integral part of the wall and waterproofs the negative or positive side through a crystallization process. Hey’Di K-SB is the bonding agent used with Hey’Di K-11. It improves adhesion, flexibility and the permeability resistance of the system.

**Application:** Apply to above or below grade surfaces (interior or exterior) to protect against hydrostatic water pressure. Typical applications include foundations, basements, tunnels, dams, water reservoirs, manholes, sewage and water treatment plants, and any other underground structures. Effectively waterproofs concrete, medium/heavy weight concrete block, brick and shotcrete.

**Specifications:**
- Application Life: 30 min
- Recoil Time: 24 hrs
- Final Cure: 7 days
- Coverage: One 50 lb. bag covers approximately 200 ft²/coat. 2 coats recommended. Positive side waterproofing, blend 1½ qts. SB concentrate with required mix water. Negative side waterproofing, blend 2 qts. SB concentrate with required mix water.

**Applicable Standards:**
- Approved by NSF (ANSI STD 60/61) for use with potable water. It is also approved by the USDA for food plants.
- Made in the USA

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**No.** | **Size**
---|---
TAM K11 | 50 lb. bag, Gray, 48/pallet
Liquid: | 
TAM 1GSB | 1 gal. pail, 4/ctn, 48 lbs.

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Fire Barrier CP 25 WB

Description: A premium elastomeric latex caulk designed for use as a one-part fire, smoke, noxious gas and water sealant. In addition, the unique intumescent property of this material (expands when heated) means that as cable or pipe insulation is consumed by fire, it expands to maintain the penetration seal. Features superior adhesion strength, caulk rate and non-sag application with expanded UL Classified fire protection systems plus a halogen-free formula. Can be installed with a standard caulking gun, pneumatic pumping equipment or it can be easily applied with a putty knife or trowel. It will bond to concrete, metals, wood, plastic and cable jacketing. No mixing is required.

Water base: Easy clean up, no special handling, routine disposal.

Endothermic: Absorbs heat energy, releases chemically bound water.


Water seal: Seals against inadvertent water spills in the unexpanded state. Continuous Operating Temperature not to exceed 120˚ F.

Application: Use to seal construction openings, blank openings and penetrating items against the passage of flame, noxious gas, smoke and water. Restores fire rated construction to original integrity. Also for use with 3M Brand Fire Barrier FS195+ Wrap/Strip and CS-195+ Composite Sheet.

Applicable Standards:
ASTM E-814 Fire Test, tested under positive pressure. Complies with the requirements of the NEC (NFPA-70), BOCA, ICBO, SBCCI and NFPA Code #101.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM CP25</td>
<td>10.5 fl. oz. cartridge, 12/case, 25 lbs.</td>
</tr>
</tbody>
</table>

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Construction Joint Sealants** - are produced in a wide variety of base materials each with different characteristics and properties designed for specific or multi-purpose uses. The sealants most frequently used in concrete and masonry joints subjected to movement are: polyurethane and silicones. Joints not subject to movement like control joints, semi-rigid epoxies are recommended. Most joint sealant problems are due to using the wrong type of sealant, poor design, or improper preparation and application.

Successful expansion joints using elastomeric sealants are installed twice as wide as the depth. Controlling sealant depth and preventing joint disintegration is accomplished by using a polyethylene backer rod. The diameter of the rod should be 25% larger than the joint’s width. Using the rod eliminates placing bond breaking strips before application of sealant and protection from disintegration caused by direct contact between asphaltic materials and sealant.

Preparation is important if the sealant is to adhere properly. Laitance and loose material should be removed from the sides of the joint. The joint should be clean and dry, with a primer used for underwater application or hard to bond to surfaces. Check with sealant literature for recommendations. The temperature at the time of installation of the sealant is important. Sealants should be installed at a moderate temperature so that the joint will not be fully opened or closed. The temperature will also affect the quantity of sealant required and can significantly influence the stress and strain on the sealant.

**Semi-rigid Epoxy Joint Sealants** – are 2 component epoxy resin systems either self leveling or non sag consistency with a shore A hardness of between 70 to 90 with low bond and tensile strengths. This rigidity helps protect the edge of concrete by absorbing the impact of the hard wheels and by filling the entire joint increasing the impact resistance by the materials ability to stay in place under wheel loads. Semi-rigid epoxy sealants are designed to have a lower tensile and bond strength than concrete which eliminates structurally bonding the concrete together. The weakest link will give if too much movement occurs, in this case the epoxy bond line. This prevents the concrete from cracking and unraveling.

Semi-rigid epoxy joint sealants are typically used in industrial floor applications as control joint fillers, or as security pick proof sealants.

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
<table>
<thead>
<tr>
<th>CODE</th>
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<th>PKP</th>
<th>SIZE</th>
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<td>6-8 HR</td>
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<tr>
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<tr>
<td></td>
<td>SILICONE NON SAG</td>
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</tr>
<tr>
<td>GE 100C</td>
<td>GE 1000 CLEAR</td>
<td>1 - 10 OZ</td>
<td>18</td>
<td>5 MIN</td>
<td>25 MIN</td>
<td>24 HR</td>
<td>7 DAY</td>
<td>EXCEL</td>
<td>FAIR</td>
<td>FAIR</td>
<td>-</td>
<td>S</td>
<td>NS</td>
<td>25</td>
<td>-40-450F</td>
<td>35-90F</td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

**APPLICATIONS:**
- EXPANSION JOINT SEALANT
- FILLING OF SAW CUT CONTROL JOINTS
- ELECTRICAL LOOP SEALANT

**COLOR PAKS**
- SK CP(CLR) COLOR PAK FOR 2 CTS NS
- SK 429 SIKAFLEX CONCRETE PRIMER

**APPLICATIONS TYPE**
- SELF LEVELING
- INTERIOR / EXTERIOR
- REG CURE
- SIKAFLEX 1CSL
- FAST CURE
- SIKAFLEX 2CSL
- INTERIOR ONLY
- REG CURE
- SIKAFLEX 1A
- FAST CURE
- SIKAFLEX 2CSL

**CONCRETE**
- FAST CURE
- SIKAFLEX 2CSL
- SELF LEVELING
- INTERIOR / EXTERIOR
- REG CURE
- SIKAFLEX 1CSL
- FAST CURE
- SIKAFLEX 2CSL
- INTERIOR ONLY
- REG CURE
- SIKAFLEX 2CSL

**PRODUCTS**
- JET FUEL RESISTANT
- SELF LEVEL
- REG CURE
- GARDOX

**SPECIAL APPLICATIONS**
- LOOP SEALANT
- ASPH / CONC
- REG CURE
- DURAL 340

**INSTALLATION AND SURFACE PREP PROCEDURES**
- ALL TESTING PERFORMED @ 75 F
- CONSULT SPECIFICATIONS SHEETS FOR COMPLETE TECHNICAL INFORMATION

**DESCRIPTIONS**
- FAST CURE: SIKA FLEX 2CSL
- REG CURE: SIKA FLEX 1CSL
- SELF LEVELING: SIKA FLEX 1A
- JET FUEL RESISTANT: SIKAFLEX 2CSL
- LOOP SEALANT: DURAL 340
**POLYURETHANE / SELF LEVELING**

**Gardox**

**Description:** Gardox is a pourable, two-component, cold-applied compound for sealing joints in concrete. Chemically reactive polymers plasticized with coal tar cure to a durable, rubberlike joint seal that offers a firm, smooth, non-tracking surface retaining flexibility from -20° F to over +200° F. Effectively seals the joint against water infiltration and rejects incompressibility. Provides a firm, smooth, non-tracking surface in summer and retains flexibility in winter. Requires no special metering equipment. Resistant to jet fuels, most common solvents and chemicals.

**Application:** Gardox is recommended for sealing horizontal joints on highways, airport runways, bridges, plaza decks and driveways. Interior uses include the sealing of joints in industrial floors, garage floors, airplane hanger floor joints, etc. Is resistant to jet fuels, most common solvents and chemicals.

**Applicable Standards:**
- Federal Specification SS-S-200D, Type H
- Federal Spec. SS-S-195, Type H
- FAA Specification Item P-605
- ASTM C-920, Type M, Grade P, Class 25, Use T.

**Specifications:**
- **75° F**
- **Application Life:** 2 hrs
- **Tack Free to Touch** (TT-S-00230C): 12 hrs
- **Final Cure** (TT-S-00230C): 3–5 days
- **Movement Capability:** +/-25% Class 25
- **Service Temp Range:** -40° to 200° F
- **Coverage:** A joint ½” wide by ½” deep requires approximately 1.3 gallons per 100 lineal feet.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WR 1GGD</td>
<td>1 gal. unit, 12 lbs.</td>
<td></td>
</tr>
<tr>
<td>Primer:</td>
<td>WR 1QPGP</td>
<td>1 qt. unit, 3 lbs.</td>
</tr>
</tbody>
</table>

**Sikaflex 1CSL**

**Description:** A single component, self-leveling, premium grade polyurethane sealant with an accelerated curing capacity.

**Application:** Used to seal horizontal expansion and construction joints such as: concrete pavements, cementitious slabs, epoxy coated floors. Must use primer for water immersion or on certain surfaces.

**Applicable Standards:**
- Meets Federal Specifications TT-S-00230C, Type 1, Class A.
- Meets ASTM C-920, Type S, Grade P, Class 25.

**Specifications:**
- **75° F**
- **Application Life:** 2 hrs
- **Tack Free to Touch** (TT-S-00230C): 1 to 2 hrs
- **Final Cure** (TT-S-00230C): 3–5 days
- **Shore A Hardness:** (ASTM D-2240) 45+\-5
- **Movement Capability:** ± 25% Class 25
- **Service Temp. Range:** -40° to 170° F
- **Coverage:** A joint ½” wide by ½” deep requires approximately 5.8 cartridges per 100 lineal feet.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SK 1CSL</td>
<td>29 fl. oz. sausage, 12/case, 36 lbs.</td>
<td></td>
</tr>
<tr>
<td>Primer:</td>
<td>SK 429</td>
<td>Pint unit, 6/case, 6 lbs.</td>
</tr>
</tbody>
</table>

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Sikaflex 2CSL

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SK 2CSL</td>
<td>1.5 gal unit, 20 lbs.</td>
</tr>
</tbody>
</table>

Color
| SK CP | color |

Application: Intended for use in all properly designed working joints with a minimum depth of ¼”. Ideal for horizontal applications. Placeable at temperatures as low as 40° F. Adheres to most substrates commonly found in construction. Must use primer for water immersion or on certain surfaces.

Applicable Standards:
Meets ASTM C-920 and Federal Specifications TT-S-00227E. Type 1, Class A, Grade D.

Specifications:
- Application: 75° F
- Application Life: 2 hrs
- Tack Free to Touch (ASTM C-679): 6 to 8 hrs
- Final Cure (ASTM C-679): 3 days
- Shore A Hardness (ASTM D-2240): 40+/-5
- Movement Capability: +/-50%
- Class 25
- Service Temp. Range: -40° to 170° F
- Coverage: 1.5 gal. yields 115 lin. ft. of a ½” x ½” joint.

Sikaflex 1A
Description: Is a premium grade, high-performance, moisture cured, 1-component, polyurethane-base, non-sag elastomeric sealant.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SK T1AL (CLR)</td>
<td>10.3 ft. oz. cartridge, 24/case, 25 lbs.</td>
</tr>
<tr>
<td>Primer:</td>
<td>Pint unit, 6/case, 6 lbs.</td>
</tr>
</tbody>
</table>

Application: Designed for all types of joints where maximum depth of sealant will not exceed 1/2”. Excellent for small joints and fillets, windows, door frames, reglets, flashing, and many construction adhesive applications. Suitable for vertical and horizontal joints; placeable at 40° F. Has many applications as an elastic adhesive between materials with dissimilar coefficients of expansion. Must use primer for water immersion or on certain surfaces.

Applicable Standards:
Meets Federal specification TT-S-00230C, Type II, Class A. Meets ASTM C-920, Type S, Grade NS, Class 25; Canadian Standard 19-GP-16A, Type II, USDA.

Specifications:
- Application: 75° F
- Application Life: 3 hrs
- Tack Free to Touch (TT-S-00230C): 3 hrs
- Final Cure (TT-S-00230C): 5-8 days
- Shore A Hardness (ASTM D-2240): 40±5
- Movement Capability: ±25%
- Class 25
- Service Temp. Range: -40° to 170° F
- Coverage: A joint ½” wide by ½” deep requires 12.5 tubes per 100 lineal ft.

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.

Masons Supply Company
Oregon (800) 537-3407 ♦ Washington (800) 537-6216
Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville

+ 7900 Expansion / Control Joint Sealants
Questions? Call for Customer Service:
Oregon (800) 537-3407 Washington (800) 537-6216
Sikaflex 2CNS

Description: Is a 3-component, premium grade, polyurethane-base, elastomeric sealant. Principally a chemical cure in a non-sag consistency. Available in 25 colors with convenient Color-pak.

Application: Intended for use in all properly designed working joints with a minimum depth of ¼". Ideal for horizontal applications. Placeable at temperatures as low as 40° F. Adheres to most substrates commonly found in construction. Must use primer for water immersion or on certain surfaces.

Applicable Standards:
Meets ASTM-C-920 and Federal Specification TT-S-00227E. Type II, Class A, Grade NS.

Specifications:
- Application Life: 75° F
- Tack Free to Touch (ASTM C-679): 6 to 8 hrs
- Final Cure (ASTM C-679): 3 days
- Shore A Hardness (ASTM D-2240): 25\+-5
- Movement Capability: ±50 Class 25
- Service Temp. Range: -40° to 170° F

Coverage: 1.5 gal. yields 115 lin. ft. of a ½" x ½" joint.

Dural® 340 SL

Description: A 2-component, 100% solids, epoxy self leveling grade resin system. Will protect joint edges and prevent spalling in control and relief joints. It is flexible, yet hard enough to resist the imbedding of sand, stones and dirt. It has high bond strength, good rigidity, chemical resistance to mild acids/alkalis, incidental contact with aromatic aliphatic solvents, and excellent thermal shock resistance.

Application: Used for filling concrete construction joints, control joints, saw cut joints, and cracks in concrete and asphalt. Also suitable for use as a traffic loop and wire sealant. Should not be used in expansion joints or to repair any type of moving cracks.

Applicable Standards: Complies with USDA guidelines.

Specifications:
- Mix Ratio (volume): 1A:1B
- Pot Life (2 gal.): 30 min
- Cure Time:
  - Initial: 6 hrs
  - Final: 3 days
- Tensile Strength (ASTM D-638): 700 psi
- Tensile Elongation (ASTM D-638): 95%
- Shore “A” Hardness (ASTM D-2240): 80

Coverage: A joint 3/16" wide x 1" deep requires approximately 1 gal. per 100 lineal feet. 22 fl. oz. yields approximately 17 lineal feet.

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

Warning: Chronic health effect possible—inhalaion of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**QWIKJOINT 200**

**Description:** is a fast-setting, semi-rigid polyurea used for filling control and construction joints in industrial concrete floors. Product has a superfast set time and an extended shave time. Can be trimmed flush with floor immediately after placement or up to 24 hours later. Supports and protects joint edges from heavy loads and wheel traffic, reducing spalling of the joint edges.

**Application:** Intended for concrete construction and control joints, crack repair for old floors, and industrial and commercial floors and freezer floors.

**Applicable Standards:** Complies with ACI 302, and meets USDA requirements for use in food processing facilities.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU T200</td>
<td>22 fl. oz. cartridge, 12/case, (includes nut &amp; nozzle), 24 lbs.</td>
</tr>
</tbody>
</table>

**Accessories**

- TAM NOZ SQ 1/2” x 7” mixing nozzle
- TCX 31300HD Manual Cartridge Gun
- TCX PPA 300B Pneumatic gun

<table>
<thead>
<tr>
<th>Specifications:</th>
<th>70°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mix Ratio (volume):</td>
<td>1A:1B</td>
</tr>
<tr>
<td>Tack Free Time:</td>
<td>1-3 minutes</td>
</tr>
<tr>
<td>Light Traffic:</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Full Traffic:</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Shave Time:</td>
<td>30 min - 6 hrs</td>
</tr>
<tr>
<td>Tensile Strength: (ASTM D-412):</td>
<td>&gt; 800 psi</td>
</tr>
<tr>
<td>Shore A Hardness (ASTM D-2240):</td>
<td>90</td>
</tr>
<tr>
<td>Elongation: (ASTM D-412):</td>
<td>200-250%</td>
</tr>
<tr>
<td>Coverage:</td>
<td>1 ea. 22 fl. oz. cartridge yields approximately 40 in³ of epoxy adhesive.</td>
</tr>
</tbody>
</table>

**QWIKJOINT 300**

**Description:** is a fast-setting, semi-rigid polyurea used for both initial filling and repair of control and construction joints in concrete floors. QWIKJOINT 300 has been formulated for fast strength development and exceptional durability, making it especially suited for filling wide and deep joints. It supports and protects joint edges from heavy loads and wheel traffic, eliminating spalling of the joint edges.

**Application:** For use on concrete construction and control joints, repair and filling of wide & deep floor joints, crack repair, and industrial, commercial and freezer floors.

**Applicable Standards:** Complies with ACI 302, and meets USDA requirements for use in food processing facilities.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>EU T300</td>
<td>22 fl. oz. cartridge, 12/case, (includes nut &amp; nozzle), 24 lbs.</td>
</tr>
</tbody>
</table>

**Accessories**

- TAM NOZ SQ 1/2” x 7” mixing nozzle
- TCX M300XL Manual Cartridge Gun
- TCX PPA 300B Pneumatic gun

<table>
<thead>
<tr>
<th>Specifications:</th>
<th>70°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mix Ratio (volume):</td>
<td>1A:1B</td>
</tr>
<tr>
<td>Tack Free Time:</td>
<td>1-3 minutes</td>
</tr>
<tr>
<td>Light Traffic:</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Full Traffic:</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Shave Time:</td>
<td>30 min - 6 hrs</td>
</tr>
<tr>
<td>Tensile Strength: (ASTM D-412):</td>
<td>1000 psi</td>
</tr>
<tr>
<td>Shore A Hardness (ASTM D-2240):</td>
<td>90</td>
</tr>
<tr>
<td>Elongation: (ASTM D-412):</td>
<td>300-350%</td>
</tr>
<tr>
<td>Coverage:</td>
<td>1 ea. 22 fl. oz. cartridge yields approximately 40 in³ of epoxy adhesive.</td>
</tr>
</tbody>
</table>

*Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.*
Dural® 340 NS

**Description:** A 2-component, 100% solids epoxy resin system. A non-sag version used for vertical surfaces or horizontal sloped surfaces.

**Application:** Used for filling concrete construction joints, control joints, saw cut joints, and cracks in concrete and asphalt. Also suitable for use as a traffic loop and wire sealant. Should not be used in expansion joints, or to repair any type of moving cracks.

**Applicable Standards:** Complies with USDA guidelines.

**Coverage:** 2 gal. will yield 462 in³ or will fill 150 ft of ½” wide x ½” deep joint. 22 fl. oz. yields approximately 40 in³.

**Specifications:**
- **Mix Ratio** (volume): 1A:1B
- **Pot Life** (2 gal.): 30 min
- **Viscosity:** Gel
- **Cure Time:**
  - Initial: 6 hrs
  - Final: 3 days
- **Tensile Strength** (ASTM D-638): 700 psi
- **Tensile Elongation** (ASTM D-638): 95%
- **Shore “A” Hardness** (ASTM D-2240): 85

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
SILICONE / NON-SAG

GE 1000
Description: 1000 series silicone adhesive sealants are one part sealants that offer excellent adhesion, weatherability and elasticity for general glazing and for sealing applications.

Application: For general glazing; glass, plastic, channel or stop. Curtain wall sealing; glass, metal, granite, and plastic. General sealing; sheet metal, skylights, ventilators, air conditioning. Metal/plastic signs, glass block structures, bedding of marine hardware.

Coverage: A joint 1/2" wide by 1/2" deep requires 12.5 tubes per 100 lineal feet.

Applicable Standards:
• Federal Specifications TT-S-001543A
• ASTM-C 920-Type-S, NS, Class 25, USE NT G, A & O.
• TT-S-00230C.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>GET1000</td>
<td>10.3 fl. oz. cartridge, 24/case, 24 lbs.</td>
</tr>
</tbody>
</table>

Questions? Call for Customer Service:
Oregon (800) 537-3407 ♦ Washington (800) 537-6216

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
** Calcium Aluminate Fondu  
** Description:** Is a hydraulic cement, with an alumina content of approximately 40%. Composed mainly of calcium aluminates. Fondu is ideally suited for refractory applications. It also contains compounds based on lime, alumina, iron oxides and silica. It is recommended for applications where rapid hardening and excellent performance are required.  
** Application:** The high proportion of mono calcium aluminate in Fondu imparts excellent mechanical strengths to mortars and concretes and is very rapid hardening.  

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>C FONDU</td>
<td>94 lb. bag, 40/pallet</td>
</tr>
</tbody>
</table>

** Lime Type S  
** Description:** Manufactured for use in masonry mortar, plaster, and stucco. It is produced by calcining, pressure hydrating and milling of high purity dolomitic limestone. The fine, white powder is a key ingredient in the mixing of highly plastic workable mortars needed for durable, watertight masonry.  
** Application:** Mortars made with portland cement and Type S Lime are the only ones approved by all major building codes and proven in the field through year of actual use. Mortars made with Type S Lime have bond strength values which exceed those of masonry cement mortars. The high bond strength value of portland cement-lime mortar would indicate that the wall is inherently more resistant to cracks and leaking.  
** Applicable Standards:** Standard specification for hydrated lime for masonry purposes. ASTM C-207, Type S. Standard specification for mortar for unit masonry, ASTM C-207, Brick Institute of America.  

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>C WLIME</td>
<td>50 lb. bag, 35/pallet</td>
</tr>
</tbody>
</table>

** Plastic Cement  
** Description:** Plastic cements are made by adding plasticizing agents, up to 12% by total volume, to Type I (Normal) or II cement during the manufacturing process.  
** Application:** Plastic cements are commonly used for making mortar, plaster and stucco.  

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>C PC</td>
<td>94 lb. bag, 35/pallet</td>
</tr>
</tbody>
</table>
Portland Cement Type I & II

**Description:** These types are general-purpose cements. They are suitable for all uses when the special properties of the other types are not required.

**Application:** Uses include pavements and sidewalks, reinforced concrete buildings, bridges, railway structures, tanks and reservoirs, culverts, water pipe, and masonry units.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. TIL</td>
<td>94 lb. bag, 35/pallet</td>
</tr>
</tbody>
</table>

**Applicable Standards:**
ASTM C-150.

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Portland Cement Type III

**Description:** This type cement provides high strengths at an early period, usually a week or less. In cold weather its use permits a reduction in the controlled curing period. Although richer mixes of Type I of Normal cement can be used to gain high early strength, Type III or High-Early-Strength cement may provide it more satisfactorily and/or more economically.

**Application:** It is used when forms are to be removed as soon as possible or when the structure must be put into service quickly.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. TIL3</td>
<td>94 lb. bag, 35/pallet</td>
</tr>
</tbody>
</table>

**Applicable Standards:**
ASTM C-150.

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White Portland Cement

**Description:** White Portland cement is a true portland cement. The principal difference between white and grey cement is color. The manufacturing process is controlled so that the finished product will be white instead of grey. It is made of selected raw materials containing negligible amounts of iron and manganese oxide.

**Application:** It is used primarily for architectural purposes such as precast curtain wall and facing panels, terrazzo surfaces, stucco, cement paint, tile grout, and decorative concrete. Its use is recommended wherever white or colored concrete or mortar is desired. Uses include pavements and sidewalks, reinforced concrete buildings, bridges, railway structures, tanks and reservoirs, culverts, water pipe, and masonry units.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. FW</td>
<td>Federal White, 92.6 lb. bag, 40/pallet</td>
</tr>
</tbody>
</table>

**Applicable Standards:**
ASTM C-150.

---

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Agricultural Gypsum

**Description:** A high purity, natural source of calcium sulfate hydrate. Improves water penetration and retention, soil tilth, neutralizes sodic soils. Increased the availability of nutrients in the soil as well as yields from problem soils. Supplies sulfate sulfur without affecting soil pH.

**Application:** Used as an accelerator for gypsum plasters.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>C LAND</td>
<td>50 lb. bag, 63/pallet</td>
</tr>
</tbody>
</table>

Casting Plaster

**Description:** Plaster can be fabricated or used in four main ways:

1. Mixed as a fluid slurry, it can be cast or sprayed
2. Worked in a plastic state by screeding or template forming
3. Pressed between dies as a semi-wet powder
4. Carved or machined as a solid.

Properly used gypsum plaster is safe to handle and work with. With few exceptions, gypsum plaster is non-toxic, non-allergenic, orderless, and non-irritating to the skin. It does not attract or support vermin. When dry, it will not support mold, fungus or bacterial growth.

**Application:** In fluid slurry form, plaster pours easily into flexible or rigid molds. Viscosity ranges from nearly water to molasses. Plaster captures fine detail and can be parted from any nonporous surface. Properly formulated, it can be self-leveling and pumpable. In plastic mass form, plaster can be built up, troweled, added to, scraped away or sculpted as easily as clay. Viscosity ranges from that of butter to modeling clay. In gypsum cement form, plaster can be applied as a plastic mass to virtually any contour and will set in place to produce a reverse contour. In solid form gypsum can be carved or machined using conventional tools and equipment, including numerically controlled milling equipment.

**Specifications:**
- **Hand Mix Set:** 27–37 min
- **Compressive Strength:** 2,000 psi
- **Approximate Density:**
  - Wet: 100 lb./ft³
  - Dry: 72.5 lb./ft³
- **Coverage:** 1.0 ft³.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>P CAST</td>
<td>50 lb. bag, 70/pallet</td>
</tr>
</tbody>
</table>

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Imperial Base Coat Plaster

Description: A high strength base coat plaster for use in two-coat veneer plaster applications. Can be used with a high strength veneer plaster finish such as Imperial Finish Plaster.

Application: Apply 1/16" to 3/22" thick to Imperial Gypsum Board directly over porous concrete block or over a bonding agent applied to monolithic concrete. The base coat surface must be left rough and open to achieve proper bond and suction for finishing of the finish coat.

Coverage: 0.5 ft³ approx.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>P IMPBASE</td>
<td>50 lb. bag, 63/pallet</td>
</tr>
</tbody>
</table>

Imperial Finish Plaster

Description: Offers the highest strength and most abrasion resistant finish of any plaster finish. It requires the addition of clean water for hand application. Is particularly suited for hard-wear locations where the ultimate strength, abrasion resistance and durability are desired.

Application: Apply to a nominal 1/16" thickness over Imperial Gypsum Board in one coat veneer plaster systems. Imperial Finish Plaster can also be applied over Imperial Basecoat in two coat veneer plaster systems. However, this combination yields lower productivity and a surface where it is harder to achieve a smooth trowel finish compared to other prepared plaster finishes.

Specifications:
- Compressive Strength: 3,000 psi
- Coverage: 0.5 ft³ approx.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>P IMPFIN</td>
<td>50 lb. bag, 63/pallet</td>
</tr>
</tbody>
</table>

Structo-Lite

Description: Structo-Lite Gypsum Plaster weighs less than half as much as a sanded base coat. This ready mixed, perlite aggregate plaster provides three times the insulation value of sanded plaster, at an overall cost comparable to job mixed lightweight aggregate plaster. It may be sand float finished or used as a base for acoustical tiles. Smooth trowel finishes may be achieved over Structo-lite Plaster. Requires only adding water on the job.

Applicable Standards:
- Complies with ASTM C-28 for gypsum ready mixed plaster.

Specifications:
- Compressive Strength: 700 psi
- Dry Weight: 50 psi
- Coverage: 0.5 ft³/bag approximately.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>P STRUCTO</td>
<td>50 lb. bag, 40/pallet</td>
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</tbody>
</table>

Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions.

Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Stucco Finish

**Description:** A textured, portland cement based stucco finish coat. Weatherproofs and decorates concrete and masonry. Mixes easily with potable water. Trowel or spray application. Available in pre-mixed colors. High durability. Consistent uniformly colored finish. Excellent bond. Fiber reinforced available for increase flexural strength and crack resistance. Akkro-7T may be used in the mixing liquid to aid curing, reduce shrinkage, and improve bond qualities and strength. Reduce the amount of water in each batch by 2 quarts and place it with 2 quarts of Akkro-7T. Work started with Akkro-7T in the mix must contain Akkro-7T in subsequent batches to help ensure color uniformity throughout the job.

**Application:** Use exterior or interior on formed or precast concrete, masonry, stone, brick, cement plaster, and stucco brown coats.

**Applicable Standards:** Meets the requirements of ASTM C-926 and ANSI A42.2.

**Coverage:** Coverage rates are approximate and for estimating purposes only. The texture, thickness, and application techniques will determine the quantity required. One 80 lb. bag will cover approximately 60 ft² applied approximately ⅛” thick.

<table>
<thead>
<tr>
<th>No.</th>
<th>Color</th>
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</thead>
<tbody>
<tr>
<td>TAM SFG</td>
<td>Gray</td>
</tr>
<tr>
<td>TAM SFW</td>
<td>White</td>
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</table>

<table>
<thead>
<tr>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>80 lb. bag, 30/pallet</td>
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<table>
<thead>
<tr>
<th>Admix</th>
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</thead>
<tbody>
<tr>
<td>TAM 1G7T</td>
</tr>
<tr>
<td>TAM 5G7T</td>
</tr>
</tbody>
</table>

Stucco Fiber Base

**Description:** Formulated with Portland Cement. Factory blended and designed for exterior grade construction (interior when applicable). Utilizing proprietary chemically engineered additives to reduce cracking, it increases yield and workability. No chloride accelerators are used in the mix, and all components are compatible with reinforcing steel. Reduces waste, labor, shrinkage, and cracking. Increases productivity. Factory blending offers consistent quality. Easy to transport. Excellent for tight job sites. Just add water.

**Application:** New construction, restoration and repair concrete block or brick, patching.

**Applicable Standards:** Will meet property requirements of ASTM C-926.

**Specifications:**
- **Trade Craft Control Compressive Strength:**
  - 7 days: 2,300 psi
  - 28 days avg.: 2,500 psi

**Coverage:** An 80 lb. bag will cover 20 ft² at a thickness of ½”.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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<tr>
<td>RI STUCFIB</td>
<td>80 lb. bag, 49/pallet</td>
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</tbody>
</table>

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**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Asphalt Mix**

**Description:** ¼” crushed aggregate with asphalt additives. Cold patch, nothing to add. Hardens in 4 to 5 days after placement.

**Application:** Patching blacktop driveways, parking lots, sidewalks, etc. Finish with compaction. Use as soon as compacted and dry to touch.

**Coverage:** 60 lb. bag will cover approximately 2.5 ft² at 2” thickness.

<table>
<thead>
<tr>
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<th>Size</th>
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<tbody>
<tr>
<td>RI ASPH</td>
<td>70 lb. bag, 35/pallet</td>
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</tbody>
</table>

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**Perma-Patch®**

**Description:** A high tech cold patch repair material. Can be applied in any weather conditions. On blacktop or concrete. Just pour it in...it's done!

**Application:** Patching for quick and permanent repairs of potholes, cracks, cable trenches, utility cuts, around manhole covers and sections touching expansion joints. Can be applied to parking lots, bridges, roads and utilities.

**Specifications:** Temperature usage range between -15°F to 104°F.

**Coverage:** A 60 lb. bag of Perma-Patch fills approximately 0.48 cubic feet.

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<tr>
<td>RI PP</td>
<td>60 lb. bag, 50/pallet</td>
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**Concrete Mix**

**Description:** Concrete mix is a dry, factory blended concrete specifically designed for the professional contractor. The proportioning of raw materials and the thorough blending of the product make it superior to conventional sacked concrete products.

**Application:** Patching floors, sidewalks and driveways (for patches 2’ or deeper), setting posts, foundations.

**Specifications:** Exceeds 3000 psi with proper mixing and water ratio.

**Coverage:** A 80 lb. bag yields approximately .60 cubic feet. A 60 lb. bag yields approximately .45 cubic feet.

<table>
<thead>
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<th>No.</th>
<th>Size</th>
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<tr>
<td>RI CON</td>
<td>80 lb. bag, 49/pallet</td>
</tr>
<tr>
<td>RI CON60</td>
<td>60 lb. bag, 56/pallet</td>
</tr>
</tbody>
</table>

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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
**Mortar Mix Type N**

**Description:** A blend of masonry sand, type S lime, and Portland cement. Displays superior plasticity and bond properties which allows the joint to be tooled easily and efficiently. This ease of tooing also creates a denser mortar joint that is less susceptible to water intrusion and cracking.

**Application:** Ideal for use on any application where brick, block, or stone is used. Due to its superior workability, this product is easily used by all masons.

**Specifications:**
- Compressive Strength: 7 days 3,210 psi, 28 days 4,660 psi
- Shear Bond Strength: 7 days 276 psi, 28 days 316 psi

**Coverage:** One bag will yield .66 ft³ will lay approximately 30 standard bricks with ¼” joint.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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<tr>
<td>RI MORTN</td>
<td>80 lb. bag, 49/pallet</td>
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</table>

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**Mortar Mix Type S**

**Description:** Masco Mortar is a dry, factory blended mortar specifically designed for use by masonry contractors. Consistent quality control and convenience are key advantages.

**Application:** Patching walls, setting bricks or stones. Rich creamy mixture.

**Specifications:**
- Exceeds 1,800 psi with proper mixing and water ratio.

**Coverage:** One bag will yield .66 ft³ will lay approximately 30 standard bricks with ¾” joint.

<table>
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<th>No.</th>
<th>Size</th>
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<tr>
<td>RI MORT</td>
<td>80 lb. bag, 49/pallet</td>
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**Polyset Thin Set**

**Description:** A dry polymer modified thin set mortar that is a premium grade, acrylic fortified thin set mortar consisting of Portland Cement, sand, and powdered polymer additives. Designed to be mixed and blended with water; no other liquid additive is needed. Available in gray. Used for the setting of all types of ceramic tile, over a variety of different substrates, both indoors and outdoors.

**Application:** Conforms to the requirements for dry set mortars for the setting application of hard surface tile and stone. Use in wet and dry, interior and exterior, horizontal and vertical applications.

**Specifications:**
- Compressive Strength:
  - 7 days 3,210 psi
  - 28 days 4,660 psi
- Shear Bond Strength:
  - 7 days 276 psi
  - 28 days 316 psi

**Coverage:** One bag will cover approximately 75 ft² when using a ¼” square notched trowel.

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<tr>
<td>RA PSG</td>
<td>50 lb. bag, 48/pallet</td>
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Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions.

**Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
Sand Mix

Description: Sand mix is a dry factory blended mortar specifically designed for use by tile and masonry contractors. Consistent mix ratio and convenience are key advantages. Pre-blending allows the cement to thoroughly coat the sand particles thus producing a stronger finished product. Sand mix is a blended mixture of washed plaster sand and cement.

Application: Use it for patching cracks in sidewalks, driveways (for patches 2” or under), building garden pools, setting drain pipes, etc.

Specifications: Exceeds 3,000 psi with proper mixing and water ratio.

Coverage: 8 ft³/bag approximately.

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<th>No.</th>
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<tr>
<td>RL SAND</td>
<td>80 lb. bag, 42/pallet</td>
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</table>
Green Diamond
Description: Is a hard durable mineral slag abrasive from smelter tailings. Moisture free; offers high degree of etch for permanent bonding of coatings. Readily used in standard equipment - no change over necessary. Inert; safer - less than 1% free silica. Leaves surfaces clean. Fast cutting - sharp angular edges. More economical; longer lasting and reusable. Clean; creates minimum dust.

Applicable Standards:
QPL Mil 22262b(S4), Carb Title 17, AASHTO T104-90-T12-87.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Size</th>
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<tbody>
<tr>
<td>S 16D</td>
<td>16/36 Mesh</td>
<td>50 lb. bag, 64/pallet</td>
</tr>
<tr>
<td>S 2040GD50</td>
<td>20/40 Mesh</td>
<td>50 lb. bag, 64/pallet</td>
</tr>
<tr>
<td>S 3060GD50</td>
<td>30/60 Mesh</td>
<td>50 lb. bag, 64/pallet</td>
</tr>
</tbody>
</table>

Dolomite Sands
Description: These industrial sands are whole grain dolomite with superior hardness and dolomite content. All grades are washed, dried, and screened under rigid controls. The result is chemical purity, minimal clay and fines contamination, and consistent grain distribution.

Application: Used in industrial and contractor applications where inert dolomite fillers are required. Applications include mortar and grout, stucco, plaster, asphalt and sealers, thin sets and adhesives, and polymer concrete.

Coverage: .50 ft³/ bag approximate.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
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<tbody>
<tr>
<td>S 16D</td>
<td>16 mesh</td>
</tr>
<tr>
<td>S 30D</td>
<td>30 mesh</td>
</tr>
<tr>
<td>S 70D</td>
<td>70 mesh</td>
</tr>
</tbody>
</table>

Bentonite
Description: Granular Bentonite. Industrial Grade - 30 Mesh. When wetted, forms into a dense, low permeable material.

Application: Can be used to perform abrasive blasting on all surface preparation jobs: ships, tanks, bridges, from contractors to fabricators. Can be used in all phases of your blast operation, wet or dry.

Applicable Standards:
QPL Mil 22262b(S4), Carb Title 17, AASHTO T104-90-T12-87.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C 50BENT</td>
<td>50 lb. bag, 64/pallet</td>
</tr>
</tbody>
</table>

*Read manufacturers' data sheets for complete specifications, installation procedures, and MSDS precautions. Warning: Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.*
Pea Gravel

**Description:** The hardest 3/8” pea gravel from the steilacoom pit. Washed, dried, and bagged.

**Application:** Used to mix with grouts or patching materials to extend yields.

**Coverage:** 1.0 ft³/bag approximately.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>RI PEA</td>
<td>100 lb. bag, 30/pallet</td>
</tr>
</tbody>
</table>

VitroGrit®

**Description:** A crushed glass abrasive especially suited for preparing a variety of surfaces for painting. It is particularly recommended where the health and safety of workers and environmental concerns are critical issues. Less hourly labor as a result of faster, more productive abrasive blasting. Less blasting media required to achieve equal or better results. Reduced disposal costs due to lighter media weight and reduced consumption. 100% recycled material in compliance with federal and state affirmative procurement policies.

**Application:**
- **Coarse/Medium** is a versatile blend of sizes for depainting and rust removal on tanks, bridges, shipyards, with better scouring power for corners, pits and weld seams. *Medium/Fine*, a workhorse blend, is a great general abrasive for most depainting and rust removal. Works well as blasting concrete for aggregate exposure, shipyard work, structural steel and tanks. Excellent for elastomeric coatings.
- **Medium/Fine**-remarkably fast and aggressive for all types of finer blasting requiring a smooth, clean finish. Makes a good surface for powder coating.
- **Fine** - a workhorse blend, is a great general abrasive for most depainting and rust removal. Works well as blasting concrete for aggregate exposure, shipyard work, structural steel and tanks. Excellent for elastomeric coatings.

**Specifications:**
- **Density:** Approx. 80 lbs./ft³
- **Specific Gravity:** 2.50
- **Hardness:** 6.0 (Mohs Scale)
- **Shape:** Angular to sub-angular

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Sieve Mesh Size</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>S 1630VG</td>
<td>Coarse/Med</td>
<td>-10m +50m</td>
<td>50 lb. bag, 60/pallet</td>
</tr>
<tr>
<td>S 3050VG</td>
<td>Med/Fine</td>
<td>-14M +60m</td>
<td>50 lb. bag, 60/pallet</td>
</tr>
<tr>
<td>S 50VG</td>
<td>Fine</td>
<td>-25m +70m</td>
<td>50 lb. bag, 60/pallet</td>
</tr>
</tbody>
</table>

Read manufacturers’ data sheets for complete specifications, installation procedures, and MSDS precautions. **Warning:** Chronic health effect possible—inhalation of silica dust may cause lung injury/disease (Silicosis). Take appropriate measures to avoid breathing dust. See page 172-173 for more information.
SILICOSIS IN CONSTRUCTION

DISCLAIMER: This is not DOL or OSHA controlled material and is provided here for reference only. We take no responsibility for the views, content or accuracy of this information.

Crystalline silica is the basic component of sand, quartz and granite rock. Airborne crystalline silica occurs commonly in both work and non-work environments. Activities such as sandblasting, rock-drilling, rock bolting, foundry work, stone cutting, drilling, quarrying, brick/block/concrete cutting, gunite operations, lead-based paint encapsulant applications, asphalt paving, cement products manufacturing, demolition operations, hammering, chipping and sweeping concrete or masonry, and tunneling operations can create an airborne silica exposure hazard.

Occupational exposure and inhalation of airborne crystalline silica can produce silicosis, a disabling, dust-related disease of the lungs. Even materials containing small amounts of crystalline silica may be hazardous if they are used in ways that produce high dust concentrations. Depending on the length of exposure, silicosis is a progressive and many times fatal disease that accounts for approximately three hundred deaths annually in the construction industry, or 10% of all silicosis-related deaths annually.

Inhaling silica dust has also been associated with other diseases, such as tuberculosis and lung cancer. There is no cure for silicosis, but it is a 100% preventable occupational disease.

Silica exposure, an ancient hazard, is a very serious threat to construction workers. Exposure to respirable crystalline silica dust during construction activities can cause silicosis. Two million workers in the United States are exposed to crystalline silica very year. The following addresses some of the types and sources or silica, work practices, procedures and suggestions for reducing or preventing silicosis.

What is Silica?

Silica is the name of a group of minerals containing silicon and oxygen in chemical combination having the general formula SiO2. Silica may be free, in which case only SiO2 is combined chemically to some other atom or molecular. The difference is important to recognize, since the silica problem exists only with free silica. Labels on materials and product and analysis sheets (e.g., MSDS sheets) must be read and instructions for use followed carefully.

Types of Silica

Free silica may occur as amorphous-free silica, of which there are many forms, and crystalline-free silica, of which there are five principal forms. Certain materials contain both amorphous-and crystalline-free silica. Silica related diseases are associated only with crystalline-free silica. The most common examples of crystalline-free silica are beach or bank sands. A third form of free silica is fused silica which is produced by heating either the amorphous or crystalline forms. Other forms include cristobalite and tridymite.

Quartz a principal form of silica, geologically is the second most common mineral in the earth’s crust. Quartz is readily found in both sedimentary and igneous rocks. Quartz content can vary among different rock types; for example, granite can contain anywhere from ten to forty percent quartz: shales have been found to average 22% quartz; and sandstones can average 70% quartz.

Exposure During Construction

The most severe worker exposures to crystalline silica results from sandblasting. In the construction industry, sandblasting may be used to remove paint and rust from stone buildings, metal bridges, tanks, and other surfaces. Other construction activities that may produce crystalline silica dust include jackhammer operations, rock/well drilling, concrete mixing, concrete tunneling, and brick and concrete block cutting and sawing. Tunneling operations, repair, or replacement of linings of rotary kilns and cupola furnaces, and setting, laying and repairing railroad tracks are also potential sources of exposure.

Concrete and masonry products contain silica sand and rock containing silica. These products are primary materials for construction, and construction workers may be exposed to respirable crystalline silica during activities such as the following:

- Demolition of concrete and masonry structures.
- Crushing, loading, hauling and dumping of rock.
- Chipping, hammering, and drilling of rock.
- Abrasive blasting using silica sand as the abrasive.
- Abrasive blasting of concrete (regardless of abrasive used).
- Sawing, hammering, drilling, grinding and chipping of concrete or masonry.
- Dry sweeping or pressurized air blowing of concrete, rock, or sand dust.
There are many specific and general recommendations to reduce exposure to respirable crystalline silica on the jobsite. Check the MSDS sheets for each product used. **Workers can limit their exposure by being aware of and practicing the following:**

- Recognize where silica dust may be generated and plan ahead to eliminate or control the dust at the source.

- Use controls and containment methods, such as blast cleaning machines and cabinets, wet drilling, or wet sawing of silica containing materials, to control the hazard and protect adjacent workers from exposure.

- Routinely maintain dust control systems to keep them in good working order.

- Conduct air monitoring to measure worker exposure and ensure that controls are providing adequate protection for workers.

- Use adequate respiratory protection when source controls cannot keep silica exposures below the recommended levels.

- Post warning signs to mark the boundaries of work areas contaminated with respirable crystalline silica.

- Provide workers with training that includes information about health effects, work practices, and protective equipment for respirable crystalline silica.
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176 MASON'S SUPPLY COMPANY
Oregon (800) 537-3407 • Washington (800) 537-6216
Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville
**EPOXY MORTAR YIELD PER GALLON OF EPOXY BINDER**

<table>
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<th>Aggregate (Gallons)*</th>
<th>Mortar (Gallons)</th>
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<td>1</td>
<td>5</td>
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* Flint Shot approximately 12–14 lbs./gallon. With other aggregates, yield will vary with mesh size and amount of entrained air.

**COVER PER GAL. OF EPOXY MORTAR (EPOXY BINDER + SAND)**

<table>
<thead>
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<th>Epoxy Mortar (Gallons)</th>
<th>Thickness (Inches)</th>
<th>Coverage (sq. ft.)</th>
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### ENGLISH UNITS

- 12 INCHES = 1 FOOT
- 3 FEET = 1 YARD
- 144 IN² = 1 FT²
- 1728 IN³ = 1 FT³
- 27 FT³ = 1 YD³
- 8 FL. OZ. = 1 CUP
- 2 CUPS = 1 PINT
- 4 QUARTS = 1 GALLON
- 1 GALLON = 231 IN³
- 1 FT = 7.48 GALLONS
## WATER

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### WEIGHT CONVERSIONS (APPROXIMATE)

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<tr>
<th>US Measure</th>
<th>Multiply by</th>
<th>SI (Metric)</th>
<th>Multiply by</th>
<th>US Customary</th>
</tr>
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<tbody>
<tr>
<td>oz.</td>
<td>x</td>
<td>28.3</td>
<td>x</td>
<td>0.035</td>
</tr>
<tr>
<td>lbs.</td>
<td>x</td>
<td>0.45</td>
<td>x</td>
<td>2.2</td>
</tr>
<tr>
<td>short tons</td>
<td>x</td>
<td>0.91</td>
<td>metric tons</td>
<td>1.1</td>
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### REQUIREMENTS FOR FILLING JOINT SLOTS (LINEAL FT/GAL.)

<table>
<thead>
<tr>
<th>Width (in.)</th>
<th>1/4</th>
<th>1/2</th>
<th>3/4</th>
<th>1</th>
<th>1-1/4</th>
<th>1-1/2</th>
</tr>
</thead>
<tbody>
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<td>308.0</td>
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<td></td>
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</tr>
<tr>
<td>1/2</td>
<td>154.0</td>
<td>77.0</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3/4</td>
<td>102.7</td>
<td>51.3</td>
<td>34.2</td>
<td>19.3</td>
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<td>1-1/4</td>
<td>61.6</td>
<td>30.8</td>
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<td></td>
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<tr>
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<td>51.3</td>
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<td>17.1</td>
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<td>8.6</td>
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<td>1-3/4</td>
<td>44.0</td>
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<td>7.3</td>
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<td>2</td>
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<td>19.3</td>
<td>12.8</td>
<td>9.6</td>
<td>7.7</td>
<td>6.4</td>
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<td>30.8</td>
<td>15.4</td>
<td>10.3</td>
<td>7.7</td>
<td>6.2</td>
<td>5.1</td>
</tr>
<tr>
<td>2-1/2</td>
<td>25.7</td>
<td>12.8</td>
<td>8.6</td>
<td>6.4</td>
<td>5.1</td>
<td>4.3</td>
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### (THEORETICAL) COVERAGES FOR COATING OR MEMBRANES

<table>
<thead>
<tr>
<th>Thickness of coating applied (1000 mils = 1 in)</th>
<th>Coverage per US Gallon 100% Solid System</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4 in. = 250,000 mils</td>
<td>6.4 sq. ft.</td>
</tr>
<tr>
<td>3/16 in. = 187,500 mils</td>
<td>8.5 sq. ft.</td>
</tr>
<tr>
<td>1/8 in. = 125,000 mils 100,000 mils</td>
<td>12.8 sq. ft.</td>
</tr>
<tr>
<td></td>
<td>16.0 sq. ft.</td>
</tr>
<tr>
<td>1/16 in. = 62,500 mils 50,000 mils</td>
<td>25.7 sq. ft.</td>
</tr>
<tr>
<td></td>
<td>32.1 sq. ft.</td>
</tr>
<tr>
<td>1/32 in. = 32,250 mils 20,000 mils</td>
<td>51.3 sq ft.</td>
</tr>
<tr>
<td></td>
<td>80.2 sq. ft.</td>
</tr>
<tr>
<td>1/64 in. = 15,625 mils 10,000 mils</td>
<td>102.7 sq. ft.</td>
</tr>
<tr>
<td>5,000 mils</td>
<td>160.4 sq. ft.</td>
</tr>
<tr>
<td>1,000 mils</td>
<td>320.8 sq. ft.</td>
</tr>
<tr>
<td></td>
<td>1604.2 sq. ft.</td>
</tr>
</tbody>
</table>

**Note:** If a coating contains a solvent which evaporates, the thickness of the coating will be reduced by the same percentage as the solvent loss.
## COMPARISON OF TYPICAL CONCRETE QUANTITIES

<table>
<thead>
<tr>
<th>Metric to US Customary</th>
<th>US Customary to Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 MPa</td>
<td>145 psi</td>
</tr>
<tr>
<td>1 m³</td>
<td>1.3 yd³</td>
</tr>
<tr>
<td>1 liter/m³</td>
<td>0.2 gal./yd³</td>
</tr>
<tr>
<td>1 kg</td>
<td>2.2 lbs.</td>
</tr>
<tr>
<td>1 kg/m³</td>
<td>1.686 lbs./yd³</td>
</tr>
<tr>
<td>Unit weight (water)</td>
<td>1 kg/L</td>
</tr>
<tr>
<td>1 metric ton (1000 kg)</td>
<td>2205 lbs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Metric to US Customary</th>
<th>US Customary to Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ft.</td>
<td>0.3 m</td>
</tr>
<tr>
<td>1 in.</td>
<td>2.5 cm</td>
</tr>
<tr>
<td>1 fl. oz./100 lbs. cement</td>
<td>65 ml/100 kg cement</td>
</tr>
<tr>
<td>1 lb./yd³</td>
<td>0.6 kg/m³</td>
</tr>
<tr>
<td>1 yd³</td>
<td>0.7646 m³</td>
</tr>
<tr>
<td>1 fl. oz.</td>
<td>30 ml</td>
</tr>
<tr>
<td>1 gal.</td>
<td>3.8 liter</td>
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</table>

## COMPARISON OF TYPICAL (APPROXIMATE) CONCRETE VALUES

<table>
<thead>
<tr>
<th>Typical Value</th>
<th>US Customary</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight: bag of cement</td>
<td>94 lbs.</td>
<td>± 43 kg</td>
</tr>
<tr>
<td>Typical Design Strength</td>
<td>3000 psi</td>
<td>21 MPa</td>
</tr>
<tr>
<td>High Strength Concrete</td>
<td>6000 psi</td>
<td>41 MPa</td>
</tr>
<tr>
<td>Cement Content</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 bag mix</td>
<td>470 lbs./yd³</td>
<td>279 kg/m³</td>
</tr>
<tr>
<td>6 bag mix</td>
<td>564 lbs./yd³</td>
<td>335 kg/m³</td>
</tr>
<tr>
<td>7 bag mix</td>
<td>658 lbs./yd³</td>
<td>390 kg/m³</td>
</tr>
<tr>
<td>Concrete Density</td>
<td>145 lb./ft³</td>
<td>2323 kg/m³</td>
</tr>
<tr>
<td>Slump</td>
<td>3 - 4 in.</td>
<td>7.5 - 10 cm</td>
</tr>
<tr>
<td>Slab thickness</td>
<td>4 in.</td>
<td>10 cm</td>
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## Anchor Grout Estimating Table

<table>
<thead>
<tr>
<th>Hole Diameter (in)</th>
<th>CU. IN. Per 1&quot; Depth</th>
<th>Hole Diameter (in)</th>
<th>CU. IN. Per 1&quot; Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot;</td>
<td>0.02</td>
<td>2-1/8&quot;</td>
<td>3.62</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>0.05</td>
<td>2-1/4&quot;</td>
<td>4.05</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>0.11</td>
<td>2-3/8&quot;</td>
<td>4.52</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>0.20</td>
<td>2-1/2&quot;</td>
<td>5.00</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>0.31</td>
<td>2-5/8&quot;</td>
<td>5.50</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>0.45</td>
<td>2-3/4&quot;</td>
<td>6.05</td>
</tr>
<tr>
<td>7/8&quot;</td>
<td>0.61</td>
<td>2-7/8&quot;</td>
<td>6.60</td>
</tr>
<tr>
<td>1&quot;</td>
<td>0.80</td>
<td>3&quot;</td>
<td>7.20</td>
</tr>
<tr>
<td>1-1/8&quot;</td>
<td>1.01</td>
<td>3-1/8&quot;</td>
<td>7.84</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>1.25</td>
<td>3-1/4&quot;</td>
<td>8.45</td>
</tr>
<tr>
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<td>1.51</td>
<td>3-3/8&quot;</td>
<td>9.12</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>1.80</td>
<td>3-1/2&quot;</td>
<td>9.80</td>
</tr>
<tr>
<td>1-5/8&quot;</td>
<td>2.11</td>
<td>3-5/8&quot;</td>
<td>10.55</td>
</tr>
<tr>
<td>1-3/4&quot;</td>
<td>2.45</td>
<td>3-3/4&quot;</td>
<td>11.25</td>
</tr>
<tr>
<td>1-7/8&quot;</td>
<td>2.81</td>
<td>3-7/8&quot;</td>
<td>12.00</td>
</tr>
<tr>
<td>2&quot;</td>
<td>3.20</td>
<td>4&quot;</td>
<td>12.80</td>
</tr>
</tbody>
</table>

Example:
100 each # 4 rebar (1/2") in a 3/4" hole by 10" deep
100 x ((.45 - .20) x 10) = 250 cu. in. of material approx.

## Cubic Inches of Adhesive Required for Installation in Solid Base Materials

<table>
<thead>
<tr>
<th>Rod Dia (in)</th>
<th>Hole Dia (in)</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
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<tbody>
<tr>
<td>1/4</td>
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<td>0.09</td>
<td>0.19</td>
<td>0.28</td>
<td>0.37</td>
<td>0.47</td>
<td>0.56</td>
<td>0.65</td>
<td>0.75</td>
<td>0.84</td>
<td>0.93</td>
<td>1.02</td>
<td>1.12</td>
</tr>
<tr>
<td>3/8</td>
<td>1/2</td>
<td>0.14</td>
<td>0.28</td>
<td>0.42</td>
<td>0.56</td>
<td>0.70</td>
<td>0.83</td>
<td>0.97</td>
<td>1.11</td>
<td>1.25</td>
<td>1.39</td>
<td>1.53</td>
<td>1.67</td>
</tr>
<tr>
<td>1/2</td>
<td>5/8</td>
<td>0.20</td>
<td>0.40</td>
<td>0.60</td>
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<td>1.41</td>
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<tr>
<td>5/8</td>
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<td>7/8</td>
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<td>0.64</td>
<td>0.97</td>
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<td>2.25</td>
<td>2.58</td>
<td>2.90</td>
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### Business Information

<table>
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<tr>
<th>City</th>
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<th>Zip</th>
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<td>Eugene</td>
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<td>Hillsboro</td>
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### Contact Information

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Phone</th>
</tr>
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<tbody>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Nature of Business

- [ ] Sole Proprietor
- [ ] Corporation
- [ ] Partnership
- [ ] LLC

### Business Details

- Business Street Address: 
- Billing Address: 
- Business Phone: 
- Fax Number: 
- Nature of Business: 

### Additional Information

- Construction Contractors Board License No.: 
- Dept. of Labor & Industries Contractors License No.: 
- Expiration Date: 
- Expiration Date: 
- Sales Tax Resale No.: 
- Bond Co. & Address: 
- Phone: 
- Bond No.: 
- Business Bank & Branch: 
- Phone: 
- Name of Bank Representative to Contact: 

### Financial Information

- Checking No.: 
- Bank Line of Credit?: [ ] Yes [ ] No
- Construction Lender: 
- Phone: 
- Contact Person: 
- Phone: 

### Personal Information

- Personal Bank and Branch: 
- Checking Account No.: 
- Savings Account No.: 
- Loan Account No.: 

### Additional Questions

- Have you or any other owner of officer ever done business with Masons? If yes, when?: 

### Trade Suppliers

#### REFERENCES (TRADE SUPPLIERS)

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
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<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Credit Information

- [ ] Business
- [ ] Personal
- [ ] Financial Statement Attached

---

**MASONS SUPPLY COMPANY**  
**Construction and Industrial Materials**  
Attn: Bookkeeping Office – P.O. Box 42367  
**CREDIT APPLICATION**  
**MASONS SUPPLY COMPANY**  
Oregon (800) 537-3407 ♦ Washington (800) 537-6216  
Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville
PERSONAL GUARANTY

In consideration for Masons Supply Company extending credit to the Corporation, Partnership, or business entity I am associated with, and as an inducement to Masons Supply Company to supply credit to that business entity, I agree to personally guarantee that all credit extended to that business entity will be paid in full. In the event the business entity I am associated with fails to pay billings from Masons Supply Company within 30 days of receipt, I agree to individually be responsible for any court costs and attorneys fees incurred by Masons Supply Company in collection efforts, should the business entity fail to pay all billings within 30 days of receipt, and should it be necessary to institute collection procedures.

DATED THIS _______ DAY OF _____________, 20_____
Signed: _____________________________________________
IN MY INDIVIDUAL AND PERSONAL CAPACITY

Signed: _____________________________________________
IN MY INDIVIDUAL AND PERSONAL CAPACITY

Signed: _____________________________________________
IN MY INDIVIDUAL AND PERSONAL CAPACITY

TERMS OF SALE

I hereby agree to pay my account in accordance with Masons Supply Company’s regular terms and conditions. I further agree to pay 1½% per month (18% per annum), service and/or finance charge, subject to local laws governing this charge on balances not paid by the 25th day of the month following purchase. “If an attorney is employed to enforce this agreement, Masons Supply Company shall be entitled to attorney fees and costs, irrespective of whether any legal proceeding is commenced. If any legal action, arbitration, or other proceeding is brought (including any bankruptcy), the prevailing party shall be entitled to recover reasonable attorney fees and other costs, both at trial and on appeal.” It is understood and agreed by and between the parties that this credit transaction is subject to the provisions of State and Federal uniform consumer credit codes as they may apply. I understand that if I fail to provide Masons Supply Company with current lists of people authorized to charge against my account, I will be held responsible for unauthorized charges.

Permission is hereby granted to Masons Supply Company to verify credit information from references and information provided, and to make all other pertinent credit inquiries as deemed necessary to make a credit determination.

LIST OF PEOPLE AUTHORIZED TO CHARGE:

DATED THIS _______ DAY OF _____________, 20_____

COMPANY NAME: _______________________________________

PLEASE SIGN BELOW:

SIGNED: _____________________________________________

TITLE: _____________________________________________
# LOCATIONS

## OREGON

<table>
<thead>
<tr>
<th>Location</th>
<th>Address</th>
<th>Phone</th>
<th>TEL</th>
<th>FAX</th>
</tr>
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<tbody>
<tr>
<td>Portland Distribution Center</td>
<td>2637 SE 12TH AVE, PORTLAND, OR 97202</td>
<td>(503) 234-1021</td>
<td></td>
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<tr>
<td>Clackamas Branch</td>
<td>14670 SE 82ND DR, CLACKAMAS, OR 97015</td>
<td>(503) 722-1528</td>
<td></td>
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<tr>
<td>Eugene Branch</td>
<td>1485 GLENWOOD BLVD, EUGENE, OR 97403</td>
<td>(541) 744-6696</td>
<td>(541) 744-2302</td>
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<tr>
<td>West Eugene Branch</td>
<td>555 COMMERCIAL ST, STE A, EUGENE, OR 97402</td>
<td>(541) 683-1408</td>
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<tr>
<td>Hillsboro Branch</td>
<td>21535 NW CHERRY LANE, HILLSBORO, OR 97124</td>
<td>(503) 533-0107</td>
<td>(503) 533-0407</td>
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<tr>
<td>Medford Branch</td>
<td>2036 LARS WAY, MEDFORD, OR 97501</td>
<td>(541) 772-1641</td>
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<tr>
<td>Salem Branch</td>
<td>2430 MCGILCHRIST ST SE, SALEM, OR 97302</td>
<td>(503) 585-5504</td>
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<tr>
<td>Wilsonville Branch</td>
<td>10955 SW COMMERCE CIRCLE, STE E, WILSONVILLE, OR 97070</td>
<td>(503) 582-9320</td>
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## WASHINGTON

<table>
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<th>Phone</th>
<th>TEL</th>
<th>FAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Woodinville Distribution Center</td>
<td>6018-234TH ST SE, STE A, WOODINVILLE, WA 98072</td>
<td>(425) 487-1611</td>
<td>(800) 537-6216</td>
<td>(425) 402-3676</td>
</tr>
<tr>
<td>Ridgefield Form/Shore/Custom Fab</td>
<td>7707 S. UNION RIDGE PKWY, RIDGEFIELD, WA 98642</td>
<td>(360) 887-4777</td>
<td>(360) 887-3048</td>
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<tr>
<td>Seattle Branch</td>
<td>115 S. DAWSON ST, SEATTLE, WA 98108</td>
<td>(206) 767-4645</td>
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</tr>
<tr>
<td>Tacoma Branch</td>
<td>2506-104TH ST CT S, STE B, LAKESWOOD, WA 98499</td>
<td>(253) 581-6161</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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