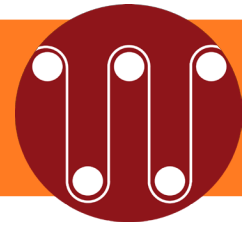




SPECIFICATION DATA SHEET



DESCRIPTION

Pro-Max is a blend of a macrosynthetic fiber, Tuf Max DOT and a microsynthetic fiber, Mono-Tuf. Both of these components of Pro-Max meet the requirements of ASTM C1116, Section 4.1.3 and Note 2. **The specific properties of each of these products are available on the ABC Polymer Industries website:** www.abcpolymerindustries.com.

SEPARATE, HIGH-PERFORMANCE PRODUCTS

Both Tuf Max DOT and Mono-Tuf are exclusively manufactured and distributed by ABC Polymer Industries. ABC markets each of these products as a separate, high-performance concrete reinforcement system.

TUFMax DOT

Tuf Max DOT is an embossed tape macrosynthetic fiber, which is a blend of polypropylene and polyethylene resins. As the name implies Tuf Max DOT is approved for use by a number of state Departments of Transportation.

MONO TUF

Mono-Tuf is a monofilament polypropylene fiber that is listed in ICC ES ESR-1699 and meets the requirements of ICC ES AC32, Sections 3.1.1 (plastic shrinkage cracking reinforcement) and 3.1.2 (temperature-shrinkage cracking reinforcement).

WHY BLEND?

COMPLETE CRACKING REINFORCEMENT SYSTEM

The Pro-Max blend of Macrosynthetic and Microsynthetic Fibers provides a complete reinforcement package from plastic shrinkage cracking reinforcement to post-first crack toughness reinforcement, which translates into a more durable, longer-lasting concrete.

- Post-first crack toughness reinforcement as measured by ASTM C1609 or ASTM C1399.
- Temperature-Shrinkage cracking reinforcement equivalent to Welded Wire Fabric (WWF).
- Plastic Shrinkage Cracking Reinforcement as measured by ASTM C1579.

CONCRETE DURABILITY

Combining macrosynthetic fibers and microsynthetic fibers enhances the long-term durability of the concrete. The blended materials deliver effective reinforcement from the moment the concrete is poured for as long as the concrete is in active use. This extended reinforcement capability is far beyond the secondary reinforcement capabilities of WWF (Welded Wire Fabric). Additional Pro Max improvements and benefits include:

- Reduced Permeability
- Increased Surface Abrasion Resistance
- Increased Impact Resistance
- Increased Fatigue Strength
- Reduced Volume Change due to Ambient Conditions, Temperature and Moisture

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STANDARD DOSAGE

The standard blend of these two products incorporates 4.0 pcy of the Tuf Max DOT and 1.0 pcy of the Mono-Tuf. Other combinations of these products are available. Pro-Max is available in a single 5.0 pound bag to make the dosing process easy.

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PRIMARY APPLICATIONS

Pro-Max is an excellent choice for industrial and warehouse floor slabs, ingress and egress roadways as well as parking areas and service ramps, bonded concrete overlays and elevated decks on composite steel decking.

Pro-Max secondary applications include water diversion channels, slope stabilization, septic tanks and specification type precast products.

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PRO-MAX DETAILS

DESIGN

When introducing Pro-Max at the standard dosage rate of 5.0 pcy we recommend that the ready mixer in the plant laboratory prepare some trial mixes to ensure the standard material proportions provide sufficient mortar to coat both the coarse aggregate and the surface area of fiber. We also recommend that either a mid-range or hi-range water reducer be included in the mix ingredients to enhance placement and consolidation of the mix.

PRO MAX DETAILS (continued)

NOTE: ABC Polymer's engineer is available for consultation on how best to establish the optimum design for your concrete project.

MIXING

Fiber is typically delivered to a jobsite already mixed in the concrete. The fiber comes in degradable bags which are added to the concrete during batching. ABC Fibers recommends 4-5 minutes of mixing at high speed prior to discharging to ensure thorough dispersion of the fibers. The result is uniformly distributed fibers that provide three-dimensional reinforcement to the concrete. Fiber is hard at work in every square inch of concrete and not just in a single plane, as is found with welded wire.

PLACING

No special tools or handling are required when placing Pro-Max reinforced mixes.

FINISHING

To ensure the desired surface texture and to optimize consolidation we recommend the use of either a laser screed or vibrating screed for slabs-on-ground.

TESTED FIBER REINFORCEMENT

ABC Polymer is driven to be the ultimate source for first-quality fiber reinforcement for concrete. All of ABCs concrete fiber reinforcement systems are designed and manufactured to meet all of the applicable consensus standards and building codes of the industry. Our QA/QC program has met the standards set by ICC ES in Acceptance Criteria 10.

ABC is focused on moving the industry forward with an aggressive research and development program that will enhance current products, advance FRC technology and produce the new generation of FRC products.

SUPERIOR CUSTOMER SERVICE

The handling of a customer's order is THE paramount function of our staff.

Our goals are to:

- Ship all orders within 72 hours and for less than truckload orders 48 hours is the typical turn-around.
- Assure absolute order accuracy including product type, quantity and ship to address
- Minimize shipping costs and travel time door-to-door

PROFESSIONAL TECHNICAL SUPPORT

In addition to providing commercial laboratory test reports ABC Polymer Industries offers in-house professional engineering support for specific projects that includes Letters of Certification and communicating with project engineers.

When you source from ABC Polymer, you have selected the absolute best FRC product(s) delivered with the most comprehensive technical support in the industry.

CONCRETE INDUSTRY SUPPORT

ABC Polymer proudly participates in industry organizations including FRCA, ASTM, ACI, NRMCA, ICC, TRB, ASCE, as well as, various state organizations.

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PACKAGING AND SHIPPING

We strive to meet our customers' needs and specifications by shipping our fiber in an inexpensive and timely manner, and by packaging our fiber in infinite ways. We ship within 48-hours of purchase order receipt for less than truckload orders. We can package into bags as small as 0.50-lb. and as large as 30-lbs. Our pallets range in weight from 648-lbs. to 1080-lbs.

WARRANTY AND LIMITATION OF LIABILITY

As used herein, the term "ABC" shall refer to ABC Polymer Industries, LLC and its subsidiaries.

The terms of ABC's invoices shall be governed by and construed in accordance with the laws of the State of Alabama.

ABC's fibers are intended to reduce plastic shrinkage cracking and provide secondary temperature-shrinkage reinforcement. ABC's fibers should not be used as structural reinforcement. ABC Polymer Industries, LLC warrants that the product sold hereunder is of merchantable quality and conforms to the seller's standards and specifications. The seller's sole liability for claim shall be limited to replacement of defective or non-conforming product. In no event shall the seller be liable for any special, incidental, consequential, or exemplary damages. ABC Polymer Industries, LLC recommends that each user determine the suitability of the product(s) for their particular application.

ABC engineering and sales personnel are available to assist in selecting the appropriate fiber for a given specification / application. Said personnel will provide an overview of anticipated performance based upon experience and testing data. ABC personnel will provide recommendations, but are not the final arbiters on design. ABC personnel will provide onsite support where our products are utilized and when deemed necessary, but will not participate in the supervision of any project. ABC's responsibility is to support our customers and to provide our customers with the best materials and assistance in marketing these products.

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