

DESCRIPTION

FiberForce 550 is a macro synthetic concrete fiber developed from a specific blend of polypropylene and polyethylene resins. FiberForce 550 has an optimized fibrillating pattern and is engineered to increase tensile capacity.

FEATURES & BENEFITS

- Crack-width control for concrete due to shrinkage and temperature restraint
- Redistributes shrinkage-stresses in concrete
- Increases concrete durability - including impact and abrasion resistance, fatigue strength, and DUCTILITY
- Provides concrete post-first crack residual strength, reduces plastic shrinkage and settlement cracking
- Uniformly distributed 3-dimensional reinforcement throughout the concrete
- Fast-Track Construction Schedules

PHYSICAL PROPERTIES

Material	Polyolefin (Polypropylene/Polyethelene)
Absorption	None
Specific Gravity	0.91
Alkali, Salt, and Acid Resistance	High
Melting Point	330°F (165 °C)
Electrical Conductivity	Low
Tensile Strength	73.1 ksi (504 MPa)
Aspect Ratio	67
Standard Length	2.0 in (50 mm)
Other Available Length	1.5 in (38 mm)

GENERAL SPECIFICATIONS

The dosage rate for FiberForce 550 is typically between 3 to 11 lb/yd³. However, a specific dosage rate should be established by the project engineer or government agency for a given application based on project conditions and requirements. FiberForce 550 should be added per project specifications or engineer's instructions.

PRODUCT APPROVALS & COMPLIANCE WITH INDUSTRY STANDARDS

- ASTM C1116: Section 4.1.3 Type III and Note 2
- ASTM D7508

APPLICATIONS

- Slabs-on-ground
- Topping slabs
- Paving/overlays
- Bridge decks
- Shotcrete
- Precast

MIXING INSTRUCTIONS

FiberForce 550 is packed in pre-weighted degradable bags. FiberForce 550 can be preloaded in empty ready-mix drums or added anytime during or after concrete is batched. Mix for 5 minutes at full charging speed (75-100 revolutions) to ensure complete dispersion of fibers. FiberForce recommends the utilization of the appropriate water reducing chemical admixture for any slump or workability modification that may be required with this technology.

PACKING & SHIPPING

FiberForce 550 is packaged in 3 lb , 4 lb and 5 lb bags then palletized for shipment. Pallets and boxes are labeled with the fiber technology and bag weight.

Store material in a dry environment. Avoid storing in direct sunlight.

In-House Professional Engineers are available for product specification guidance and design support. FiberForce Territory Managers are available for on-site support and guidance related to any FiberForce technologies.

WARRANTY AND LIMITATION OF LIABILITY

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

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

FiberForce's fibers are intended to reduce plastic shrinkage cracking. FiberForce's fibers should not be used as structural reinforcement. FiberForce by 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. FiberForce by ABC Polymer Industries, LLC recommends that each user determine the suitability of the products(s) for their particular application.

FiberForce 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. FiberForce personnel will provide recommendations, but are not the final arbiters on design. FiberForce personnel will provide on-site support where our products are utilized and when deemed necessary, but will not participate in the supervision of any project. FiberForce'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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