

TECHNICAL DATA SHEET

FIBERFORCE 350

• • • Fibrillated Microfiber

DESCRIPTION

FiberForce 350 is an ultra-fine denier fibrillated microfiber manufactured from 100% virgin polymer resins and is designed for crack-width control due to shrinkage and temperature restraint. FiberForce 350 has finishing attributes similar to polypropylene monofilament microfibers with limited surface fibers.

PROPERTIES

Material	100% Virgin Polymer
Absorption	None
Specific Gravity	0.91
Alkali, Salt, and Acid Resistance	High
Melting Point	320°F (160°C)
Electrical Conductivity	Low
Standard Length	0.75 in (19 mm)
Other Available Lengths	0.25 in (6 mm), 0.5 in (13 mm) and Multi-Length

FEATURES & BENEFITS

- Multi-purpose fiber design:
 - Used as alternate to polypropylene monofilaments for plastic shrinkage crack control at 0.5 lb/yd³
 - Replaces light-gauge welded wire reinforcement (6x6-WI.4xW1.4) or reinforcement ratio: $\rho \le 0.06\%$ depending on application at 1.0 lb/yd³
- Eliminates need to stock two different microfibers (commercial/fibrillated and residential/monofilament)
- Reduces errors associated with adding wrong fiber to ready-mix trucks
- Finishing attributes similar to polypropylene monofilament microfibers with limited to no surface fibers
- Extends service life of concrete with reduced maintenance
- Increases concrete durability including impact/abrasion resistance and toughness
- · Reduces permeability, thus increasing freeze-thaw durability

APPLICATIONS

· Slabs-on-ground

Driveways/sidewalks

- Decks/patios
- Topping slabs
- Overlays/ultra-thin white-topping
- ShotcretePrecast
- · Slipformed curbs/gutters
- Irrigation ditches/channels

MIXING INSTRUCTIONS

FiberForce 350 is packaged in preweighed water-soluble bags. It 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.

PACKING & STORAGE

FiberForce 350 is packaged in 1.0 lb and 1.5 lb bags then palletized for shipment. Pallets and boxes are labeled with fiber technology and bag weight. Store material in a dry environment. Avoid storing in direct sunlight.

GENERAL SPECIFICATIONS

The standard dosage rate for FiberForce 350 is 1.0 lb/yd³. Local building codes may allow for lower dosage rates to mitigate plastic shrinkage only. FiberForce 350 dosed at 0.5 lb/yd³ provides >60% reduction in cracking per ASTM C1579. FiberForce 350 should be added per project specifications or engineer's instructions.

PRODUCT APPROVALS AND COMPLIANCE WITH INDUSTRY STANDARDS

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

- ASTM C1579
- ICC ESR-1699 at 1.0 lb/yd³
 - ► ICC ES AC32 Section 3.1.1
 - ► ICC ES AC32 Section 3.1.2





TECHNICAL SUPPORT

In-house professional engineers are available for product specification guidance and design support. FullForce technical sales managers are available to assist with field support and guidance related to the use of any FullForce technologies.



LIMITED EXPRESS WARRANTY, DISCLAIMER OF IMPLIED WARRANTIES AND LIMITATION OF LIABILITY: As used herein, the term "FiberForce" is a product sold by ABC Polymer Industries, LLC and its subsidiaries ("ABC"). The terms of ABC's invoices including this warranty and limitation of liability, without limitation, shall be governed by and construed in accordance with the laws of the State of Alabama where it was manufactured and from where it was shipped. FiberForce fibers are intended to reduce plastic shrinkage cracking but should not be used as structural reinforcement. ABC's warranty is solely to the purchoses (and no other party) and (i) is limited to a period of 180 days from the date of its invoices and (2) is that the product sold is of good quality and conforms to the seller's most recent published standards and specifications, ABC expressly disclaims any and all other warranties including, without limitation, merchantability and fitness for particular purpose. The seller's sole liability for any claim shall be limited to the cost of replacement of defective or non-conforming product, and not for any of purchaser's other alleged costs. In no event shall the seller be liabile for any special, incidental, consequently, illudidated, punithey, or exemploy damages, or for claims of lost profits or lost jobs. Purchaser itself shall determine the suitability of the products(s) for its own particular application, and soles personnel are available to assist in providing information to allow purchaser to select the appropriate fiber for a given application, and will provide an overview of anticipated performance based upon experience and testing data. ABC personnel will provide information as requested but the design and implementation of purchaser's product is solely the responsibility of purchaser. ABC will provide on-site support as requested and when deemed necessary but will not participate in the supervision of any project, or be responsibility is to support our customers and to provide our customers with the best m