

DESCRIPTION

FiberForce 600 is a blend of synthetic macrofibers and synthetic microfibers. FiberForce 600 combines a mechanically embossed tape macrofiber with a monofilament microfiber. The specific blend ratio is 3 lb/1 lb (macrofiber/microfiber) per 4 lb bag. The blended technology is developed for post-first crack reinforcement with enhanced plastic shrinkage/settlement control.

PROPERTIES

Material	Polypropylene/ Polyethylene Blend
Absorption	None
Specific Gravity	0.91
Alkali, Salt and Acid Resistance	High
Electrical Conductivity	Low
Melting Point	320°F (160°C)
Macrofiber Component	
Tensile Strength	70 ksi (483 MPa)
Standard Length	2.0 in (50 mm)
Microfiber Component	
Standard Length	0.5 in (13 mm)

FEATURES & BENEFITS

- Crack-width control for concrete due to shrinkage/temperature restraint
- Redistributes shrinkage-stresses in concrete
- Increases concrete durability - including impact/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 concrete
- Fast-track construction schedules

APPLICATIONS

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

MIXING INSTRUCTIONS

FiberForce 600 is packaged in preweighed water-soluble bags. FiberForce 600 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 to ensure complete dispersion of fibers. FullForce recommends the utilization of the appropriate water reducing chemical admixture for any slump or workability modification that may be required with this technology.

PACKING & STORAGE

FiberForce 600 is packaged in preblended 4 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.

GENERAL SPECIFICATIONS

The dosage rate for FiberForce 600 is typically 4 lb/yd³. FiberForce 600 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
- Caltrans Standard Specification: Section 90

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 purchaser (and no other party) and (1) is limited to a period of 180 days from the date of its invoice 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 liable for any special, incidental, consequential, liquidated, punitive, or exemplary damages, or for claims of lost profits or lost jobs. Purchaser itself shall determine the suitability of the product(s) for its own particular application. ABC engineering and sales 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 responsible for its installation or outcome. FullForce's responsibility is to support our customers and to provide our customers with the best materials and assistance in marketing these products. © 2023 FullForce by ABC Polymer Industries, LLC