

DESCRIPTION

FiberForce 1000 HP is a synthetic macrofiber developed from a specific blend of polypropylene and polyethylene resins that are continuously embossed for enhanced bond and drawn to increase tensile capacity.

PROPERTIES

Material	Polypropylene/Polyethelene Blend
Absorption	None
Specific Gravity	0.91
Alkali, Salt, and Acid Resistance	High
Melting Point	320°F (160°C)
Electrical Conductivity	Low
Tensile Strength	85.5 ksi (590 MPa)
Standard Length	2.0 in (50 mm)
Other Available Length	1.5 in (38 mm)

FEATURES & BENEFITS

- Crack-width control due to shrinkage/temperature restraint
- Redistributes shrinkage-stresses in concrete
- Increases concrete durability - including impact/abrasion resistance, fatigue strength, and ductility
- Provides post-first crack residual strength, reduces plastic shrinkage and settlement cracking
- Uniformly distributed 3-dimensional reinforcement across concrete
- Fast-track construction schedules

APPLICATIONS

- Slabs-on-ground (industrial) warehouse/distribution centers
- Slabs on composite metal deck
- Topping slabs
- Paving/overlays
- Bridge decks
- Shotcrete

MIXING INSTRUCTIONS

FiberForce 1000 HP is packaged in preweighed water-soluble bags. FiberForce 1000 HP 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. 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 1000 HP is packaged in 5.0 lb bags then palletized for shipment. Pallets and boxes are labeled with fiber technology and bag weight. Store in dry environment. Avoid storing in direct sunlight.

GENERAL SPECIFICATIONS

The dosage rate for FiberForce 1000 HP is between 3 to 11 lb/yd³. FiberForce 1000 HP should be added per project specifications or engineer's instructions. For slabs on composite metal deck, the Steel Deck Institute's provision requires a minimum of 4 lb/yd³.

PRODUCT APPROVALS AND COMPLIANCE WITH INDUSTRY STANDARDS

- ASTM C1116: Section 4.1.3 and Note 2
- ASTM D7508
- UL Certification #CBXQ.R19202
- ICC ES AC383
- ICC ESR-4335
- ANSI/SDI C-2017 - Shrinkage and temperature reinforcement alternative to welded wire reinforcing



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 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