

FIBERFORCE 650 • • • Macrofiber

DESCRIPTION

FiberForce 650 is a synthetic macrofiber developed from a specific blend of polypropylene and polyethylene resins that possess unique engineering properties. Defined as a tape or ribbon fiber, FiberForce 650 has a rectangular cross-section and is mechanically embossed to enhance bonding. FiberForce 650's physical dimensions are critical to performance, as measured by ASTM C1399 and C1609. FiberForce 650 has excellent distribution and finishing properties.

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	70 ksi (483 MPa)
Aspect Ratio	2.0 in - 100; 1.5 in - 75
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

SSIFIA

- Uniformly distributed 3-dimensional reinforcement throughout 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
- Precast

MIXING INSTRUCTIONS

FiberForce 650 is packaged in preweighed water-soluble bags. FiberForce 650 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 reccommends 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 650 is packaged in 1.5 lb, 2.0 lb, and 2.5 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.

GENERAL SPECIFICATIONS

The dosage rate for FiberForce 650 is typically between 3 to 11 lb/yd³. FiberForce 650 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
- 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 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, shall be governed to reduce plastic and (1) is limited to a period of 180 days from the date of its invoice of the purchaser (and no ther party) and (1) is limited to a period of 180 days from the date of its invoice on (2) is that the product sole is to live or conforming 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 allose 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 prevision of any project or second assistance in marketing these products. ⁰ 2023 FullForce by ABC Polymer Industries, LLC

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