

TECHNICAL DATA SHEET

FIBERFORCE 850

Steel/Microfiber Blend

DESCRIPTION

FiberForce 850 is a blend of steel fibers and synthetic microfibers. FiberForce 850 combines a Type V steel fiber with a monofilament microfiber. The specific blend ratio is 23 lb/1 lb (steel fiber/synthetic microfiber) per 24 lb bag. This blended technology was developed for post-first crack reinforcement with inhanced plastic-shrinkage/settlement crack control.

PROPERTIES

Steel Fiber Component	
Material	Modified Cold-Drawn Steel Wire
Aspect Ratio	32
Standard Length	1.5 in (38 mm)
Configuration	Corrugated
Synthetic Microfibe	er Component
Material	100% Virgin Polypropylene
Material Absorption	100% Virgin Polypropylene None
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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 (commercial)
- Slabs on composite metal deck
- Topping slabs

- Pavings/overlays
- Shotcrete
- Precast

MIXING INSTRUCTIONS

FiberForce 850 is packaged in preweighed water-soluble bags. FiberForce 850 should be dispersed at a uniform rate into the concrete anytime during or after the 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 850 is packaged in 24 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 850 is typically between 24 to 48 lb/yd³. FiberForce 850 should be added per project specifications or engineer's instructions.

PRODUCT APPROVALS AND COMPLIANCE WITH INDUSTRY STANDARDS

- · Steel Fiber
 - ► ASTM C1116: Section 4.1.1
 - ► ASTM A820 Type V
- Microfiber
 - ASTM C1116: Section 4.1.3 and Note 2
 - ► ASTM D7508

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 (t) 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, inquidated, punitive, or exemploircation ABC engineering and sales personnel are evailable 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. Full Force's responsibility is to support our customers with the best materials and assistance in marketing these products (§ 2023 Full Full Force by ABC Polymer Industries, LLC