FULLFORCE™
Engineered Solutions

TECHNICAL DATA SHEET

FIBERFORCE 1000 HP

Macrofiber

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 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 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/yd^3. 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/yd^3.

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.