

DESCRIPTION

FiberForce 500 is a fibrillated microfiber manufactured from 100% virgin polymer resins. FiberForce 500 is primarily used as shrinkage and temperature reinforcement in concrete.

PROPERTIES

| | |
|-----------------------------------|--|
| Material | 100% Virgin Polymer |
| Absorption | None |
| Specific Gravity | 0.91 |
| Alkali, Salt, and Acid Resistance | High |
| Melting Point | 320°F (160°C) |
| Electrical Conductivity | Low |
| Standard Length | 0.75 in (19 mm) |
| Other Available Lengths | 0.25 in (6 mm), 0.5 in (13 mm), 1.5 in (38mm) and Multi-Length |

FEATURES & BENEFITS

- Replaces light-gauge welded wire reinforcement - (6 x 6 W1.4 x W1.4) or reinforcement ratio: $\rho \leq 0.06\%$ depending on application
- Temperature-shrinkage reinforcement
- Extends concrete service life with reduced maintenance
- Increases concrete durability - including impact/abrasion resistance and toughness
- Reduces permeability, thus increasing freeze-thaw durability
- Excellent distribution throughout the concrete mix

APPLICATIONS

- Slabs-on-ground
- Driveways/sidewalks
- Decks/patios
- Topping slabs
- Overlays/ultra-thin white-topping
- Shotcrete
- Precast
- Slipformed curbs/gutters
- Irrigation ditches/channels

MIXING INSTRUCTIONS

FiberForce 500 is packaged in preweighed water-soluble bags. FiberForce 500 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.

PACKING & STORAGE

FiberForce 500 is packaged in 1.5 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 standard dosage rate is 1.5 lb/yd³. FiberForce 500 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
- UL Classified
- ICC ESR-1699
- ICC ES AC32 Section 3.1.1
- ICC ES AS32 Section 3.1.2



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.

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