

DESCRIPTION

FiberForce 600 is a blend of synthetic macrofibers and synthetic microfibers. FiberForce 600 combines a mechanically embossed tape macrofiber with a monofilament microfiber. The specific blend ratio is 3 lb/1 lb (macrofiber/microfiber) per 4 lb bag. The blended technology is developed for post-first crack reinforcement with enhanced plastic shrinkage/settlement control.

PROPERTIES

Material	Polypropylene/ Polyethylene Blend
Absorption	None
Specific Gravity	0.91
Alkali, Salt and Acid Resistance	High
Electrical Conductivity	Low
Melting Point	320°F (160°C)
Macrofiber Component	
Tensile Strength	70 ksi (483 MPa)
Standard Length	1.5 in (38 mm)
Microfiber Component	
Standard Length	0.75 in (19 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 throughout concrete
- Fast-track construction schedules

APPLICATIONS

- Slabs-on-ground
- Paving/overlays
- Shotcrete
- Topping slabs
- Bridge decks
- Precast

MIXING INSTRUCTIONS

FiberForce 600 is packaged in preweighed water-soluble bags. FiberForce 600 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 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 600 is packaged in preblended 4 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 600 is typically 4 lb/yd³. FiberForce 600 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
- Caltrans Standard Specification: Section 90

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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