

DESCRIPTION

FiberForce 350 is an ultra-fine denier fibrillated microfiber manufactured from 100% virgin polymer resins and is designed for crack-width control due to shrinkage and temperature restraint. FiberForce 350 has finishing attributes similar to polypropylene monofilament microfibers with limited surface fibers.

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) and Multi-Length |

FEATURES & BENEFITS

- Multi-purpose fiber design:
 - ▶ Used as alternate to polypropylene monofilaments for plastic shrinkage crack control at 0.5 lb/yd³
 - ▶ Replaces light-gauge welded wire reinforcement - (6x6-W1.4xW1.4) or reinforcement ratio: $r \leq 0.06\%$ depending on application at 1.0 lb/yd³
- Eliminates need to stock two different microfibers (commercial/fibrillated and residential/monofilament)
- Reduces errors associated with adding wrong fiber to ready-mix trucks
- Finishing attributes similar to polypropylene monofilament microfibers with limited to no surface fibers
- Extends service life of concrete with reduced maintenance
- Increases concrete durability - including impact/abrasion resistance and toughness
- Reduces permeability, thus increasing freeze-thaw durability

APPLICATIONS

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

MIXING INSTRUCTIONS

FiberForce 350 is packaged in preweighed water-soluble bags. It 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 350 is packaged in 1.0 lb and 1.5 lb bags then palletized for shipment. Pallets and boxes are labeled with fiber technology and bag weight. Store material in a dry environment. Avoid storing in direct sunlight.

GENERAL SPECIFICATIONS

The standard dosage rate for FiberForce 350 is 1.0 lb/yd³. Local building codes may allow for lower dosage rates to mitigate plastic shrinkage only. FiberForce 350 dosed at 0.5 lb/yd³ provides >60% reduction in cracking per ASTM C1579. FiberForce 350 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
- ASTM C1579
- ICC ESR-1699 at 1.0 lb/yd³
 - ▶ ICC ES AC32 Section 3.1.1
 - ▶ ICC ES AC32 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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