

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 enhanced 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 Microfiber Component	
Material	100% Virgin Polypropylene
Absorption	None
Specific Gravity	0.91
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 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 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 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.



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