

FIBERSTRAND F

FIBRILLATED POLYPROPYLENE MICRO-FIBER



DESCRIPTION

FIBERSTRAND F is a fibrillated polypropylene micro-fiber for concrete reinforcement that complies with ASTM C 1116, Standard Specification for Fiber Reinforced Concrete and Shotcrete, and is specifically designed to help mitigate the formation of plastic shrinkage cracking in concrete. Typically used at a dosage rate of 1.5 lbs/ yd (0.9 kg/m³), Fiberstrand F fibers have been shown to reduce plastic shrinkage cracking by as much as 88% when compared to plain concrete. Fiberstrand F fibers also comply with applicable portions of the International Code Council (ICC) Acceptance Criteria AC32 for synthetic fibers.

PRIMARY APPLICATIONS

- Flatwork for industrial, commercial and residential concrete projects
- Footings, foundations, walls and tank applications
- Concrete pipe, vault structures and pre-cast / pre-stressed beams

FEATURES/BENEFITS

- Controls and mitigates plastic shrinkage cracking
- Reduces segregation and bleed-water
- Provides three-dimensional reinforcement against micro-cracking
- Increases surface durability
- Reduction of in-place cost versus wire mesh for temperature / shrinkage crack control
- Easily added to concrete mixture at any time prior to placement

TECHNICAL INFORMATION

Typical Engineering Data

Material.....fibrillated polypropylene
Specific Gravity0.91
Typical dosage rate 1.5 lbs/yd (0.9 kg/m³)
Available lengths: ¾" (19 mm), 1 ½" (39 mm), 2" (51 mm)
and a blend of ¼" (6 mm), ½" (12 mm) and ¾" (19 mm)
Tensile Strength.....44 ksi (303 MPa)
Modulus of Elasticity 780 ksi (5.4 GPa)
Melt point..... 330°F (165°C)
Electrical Conductivity..... low
Water absorption..... negligible
Acid and Alkali Resistance.....excellent
Fiber count approx. 14 million / lb (0.45 kg)

PACKAGING

FIBERSTRAND F fibers are packaged in 0.75 lb (0.34 kg), 1.0 lb (0.45 kg) and 1.5 lb (0.68 kg) water soluble bags.

SHELF LIFE

3 years in original, unopened package.

DIRECTIONS FOR USE

FIBERSTRAND F fibers can be added to the concrete mixture at any time prior to placement of the concrete. It is generally recommended to add any fiber material at the ready-mix concrete plant during batching. Fibers must be mixed with concrete for a minimum of three (3) minutes at maximum mixing speed to ensure complete dispersion and uniformity.



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CLEAN-UP

Loose fiber material may be disposed in proper receptacles for refuse. Finishing equipment with fibers embedded in concrete should be thoroughly cleaned.

PRECAUTIONS/LIMITATIONS

- Use of fibers may cause an apparent loss in measured slump of concrete. This may be offset with the use of a water reducing admixture if necessary.
- Fibers should never be added to a “zero-slump” concrete. Ensure a minimum concrete slump of 3" (80 mm) prior to addition of any fiber material. Fibers may also be added in loose form to aggregate charging devices.
- In all cases, consult the Material Safety Data Sheet before use.

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