

FIBERSTRAND 150



POLYPROPYLENE MICRO-FIBER

FIBERS

FIBERSTRAND 150

Master Format #:
03 2400

DESCRIPTION

FIBERSTRAND 150 is a monofilament 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 1.0 lb/yd (0.6 kg/m³), FIBERSTRAND 150 fibers have been shown to greatly reduce plastic shrinkage cracking when compared to plain concrete. FIBERSTRAND 150 fibers also comply with applicable portions of the International Code Council (ICC) Acceptance Criteria AC308 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..... monofilament polypropylene
Specific Gravity 0.91
Typical dosage rate 1.0 lbs/yd (0.6 kg/m³)
Available lengths..... 1/4" (6 mm) and 3/4" (19 mm)
Tensile Strength..... 75 ksi (520 MPa)
Modulus of Elasticity 550 ksi (3.8 GPa)
Melt point..... 325°F (160°C)
Electrical Conductivity..... low
Water absorption..... negligible
Acid and Alkali Resistance..... excellent
Fiber count approx. 50 million / lb (0.45 kg)

PACKAGING

FIBERSTRAND 150 fibers are packaged in 1.0 lb (0.45 kg) and 1.3 lb (0.59 kg) water soluble bags.

SHELF LIFE

3 years in original, unopened package.

DIRECTIONS FOR USE

FIBERSTRAND 150 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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