



THE EUCLID CHEMICAL COMPANY

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FIBERSTRAND 100

POLYPROPYLENE FIBER REINFORCEMENT

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FIBERSTRAND 100 is an engineered polypropylene fiber designed specifically for secondary reinforcing of concrete. FIBERSTRAND 100 fibers are true monofilaments that totally disperse into the concrete mix when added at the batch plant or at the job site. FIBERSTRAND 100 is available in various lengths and deniers to provide optimum strength, reduced cracking and long-term concrete durability.

PRIMARY APPLICATIONS

- Flatwork of industrial, commercial and residential concrete projects
- Footings, foundations, walls and tanks
- Concrete pipe, burial vaults and prestressed beams

FEATURES / BENEFITS

Plastic Concrete

- Controls or eliminates plastic shrinkage cracks
- Reduces segregation
- Minimizes bleed water
- Provides three-dimensional reinforcing versus two-dimensional with wire mesh

Hardened Concrete

- Reduces cracking
- Increases surface durability
- Reduces permeability
- Increases strengths

Other

- Reduces in-place cost versus concrete with wire mesh
- Faster form removal
- Totally safe compared to extruded reinforcing mesh
- Easy to use and can be added to the concrete mix at any time prior to concrete placement

SPECIFICATIONS / COMPLIANCES

- Complies with ASTM C-1116, Type III, Synthetic Fiber-Reinforced Concrete and Shotcrete

TECHNICAL INFORMATION

Typical Engineering Data

Material	Polypropylene
Specific Gravity	0.92
Alkali Resistance	Excellent
Acid Resistance	Excellent
Thermal Conductivity*	7
Mildew Resistance	Excellent
Fiber Length	3/4"(19 mm)
Denier	15
Fiber Count.....	over 14 million per lb (0.45 kg)
Fiber Type	Monofilament
Density	57 lb/ft ³ (915 kg/m ³)
Color	White
Absorption	Nil
Tensile Strength	3.0 gr/denier min
Modulus of Elasticity..	0.55 x 10 ⁶ psi (3793 MPa)
Ignition Point.....	Over 1,000°F (538°C)
Melt Point	325°F (163°C)
Electrical Conductivity	Low
Dosage Rate ...	0.5 - 3.0 lb/yd ³ (0.3 - 1.8 kg/m ³)
Standard Dosage.....	1 lb/yd ³ (.6 kg/m ³)
To Comply with U.L. Approval	1.5 lb/yd ³ (0.9 kg/m ³)

* Air equals 1, polypropylene equals 7.

Shelf life is 3 years in original, unopened package.

PACKAGING

FIBERSTRAND 100 is packaged in 0.75 lb (0.34 kg), 1.0 lb (0.45 kg) and 1.5 lb (0.68 kg) water dispersible bags as well as 1 yd³ (0.77 m³), 8 yd³ (6.1 m³), 9 yd³ (6.9 m³) and 10 yd³ (7.7 m³) dosage rates in polyethylene bags.

DIRECTIONS FOR USE

FIBERSTRAND 100 can be added any time prior to placement of the concrete. It is recommended that it be added at the ready-mix concrete plant during batching, but it can work equally well when introduced at the job site. FIBERSTRAND 100 must be mixed with the concrete for a minimum of 3 minutes at maximum drum speed to assure total dispersion and uniformity.



Form Fiberstrand 100-8.00

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