



# THE EUCLID CHEMICAL COMPANY

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# FIBERSTRAND 200

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**POLYESTER FIBER REINFORCEMENT**

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**FIBERSTRAND 200** is an engineered polyester fiber designed specifically for secondary reinforcing of concrete. FIBERSTRAND 200 fibers are true monofilaments that totally disperse into the concrete mix when added at the batch plant or at the job site. FIBERSTRAND 200 is available in various lengths and deniers to provide optimum strength, reduced cracking and long-term concrete durability. FIBERSTRAND 200 fibers are treated with a dispersion agent and specialty coating to increase the resistance against alkali attack.

### PRIMARY APPLICATIONS

- Plain, non-reinforced concrete
- In place of wire mesh reinforcement
- Flatwork
- 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

#### Other

- Reduces in-place cost versus concrete with wire mesh
- Faster form removal
- Totally safe compared to extruded reinforcing mesh
- Easy to use and dispensable into 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 .....	Polyester
Specific Gravity .....	1.38
Acid Resistance .....	Excellent
Thermal Conductivity* .....	7
Mildew Resistance .....	Excellent
Fiber Length** .....	3/4" (19 mm)
Denier .....	15
Fiber Count .....	Over 14 million per yd <sup>3</sup> (0.8 m <sup>3</sup> )
Fiber Type .....	Monofilament
Density .....	82 lb/ft <sup>3</sup> (1316 kg/m <sup>3</sup> )
Color .....	Light Gray
Absorption .....	Nil
Tensile Strength .....	3.0 gr/denier min
Modulus of Elasticity .....	0.95 x 10 <sup>6</sup> psi (6552 MPa)
Ignition Point Over .....	1,000°F (538°C)
Melt Point .....	495°F (257°C)
Electrical Conductivity .....	Low
<b>Dosage Rate:</b>	
Standard Dosage .....	1 lb/yd <sup>3</sup> (.6 kg/m <sup>3</sup> )

\* Air equals 1 polyester equals 7

\*\* Also available in 1/2," 1 1/4" and 2" (13, 32 and 51 mm) lengths.

**Shelf life** is 3 years in original, unopened package.

### PACKAGING

FIBERSTRAND 200 is packaged in 1, 8, 9 and 10 yd<sup>3</sup> (.8, 6.1, 6.9 & 7.6 m<sup>3</sup>) high-strength polyethylene bags. Each bag is individually weighed to assure the appropriate fiber-to-cubic yard ratio.

### DIRECTIONS FOR USE

FIBERSTRAND 200 can be added anytime 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 200 must be mixed with the concrete for a minimum of 3 minutes at maximum drum speed to assure total dispersion and uniformity.

Form Fiberstrand 200-6.97

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