

# FIBERSTRAND 100

## POLYPROPYLENE FIBER FOR CONCRETE REINFORCEMENT



### DESCRIPTION

**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.

### FEATURES & ADVANTAGES 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.

### BASIC USE

- 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.

### WHERE USED

**FIBERSTRAND 100** is used for increased performance of plain, non-reinforced concrete or in place of wire mesh reinforcement. All concrete requiring secondary reinforcement should contain **FIBERSTRAND 100** to achieve additional strength, impact resistance, durability and crack control. It is commonly used in flatwork of industrial, commercial and residential concrete projects.

This polypropylene material may be added to footings, foundations, walls and tanks for added strength, reduced porosity and to achieve less cracking. **FIBERSTRAND 100** is also used in manufactured concrete pipe, burial vaults and prestressed beams.

### PHYSICAL PROPERTIES

Material	Polypropylene
Specific Gravity	0.92
Alkali Resistance	Excellent
Acid Resistance	Excellent
Thermal Conductivity*	6
Mildew Resistance	Excellent
Fiber Length**	3/4"
Denier	30
Fiber Count	Over 8 million per c.y.
Fiber Type	Monofilament
Density	57.4lbs.perc.f.
Absorption	Nil

### Tensile Strength 75,00psi (min.)

Modulus of Elasticity	0.55 X 106psi
Ignition Point	Over 1,000°F
Melt Point	325°F
Electrical Conductivity	Low

### Dosage Rate:

Standard Dosage	1 lb./c.y.
Dosage Rate To Comply with U.L. Approval	1.5 lbs./c.y.

\* Air equals 1 and polypropylene equals 7 \*\* Also available in 1/2", 1 1/4" and 2" lengths

### MIXING AND PLACING

**FIBERSTRAND 100** 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 100** must be mixed with the concrete for a minimum of 3 minutes at maximum drum speed to assure total dispersion and uniformity.

<b>PACKAGING</b>	Available in 10 high- strength polyethylene bag
<b>COLOR</b>	White



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## ARCHITECTURAL /ENGINEERING SPECIFICATIONS

All non-structural reinforced concrete shall contain polypropylene monofilament fibers. The fiber must be coated with an anti-static lubricant film to assure total dispersion. To assure proper installation, technical assistant is available from the manufacturer. **FIBERSTRAND 100** polypropylene fibers from Construction Material Chemical Industries shall be used in applicable concrete.

### Quality Statement

CMCI manufactures its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products CMCI also offers full technical field support to consultants, Architects, contractors, applicators and End Users.

The Technical Specification information and recommendations given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.

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