



“NEO FIBERS FOR NEXT GENERATION CONCRETE”

## FIBERCRETE - PF (Polyester Monofilament Triangular Fiber)



Fiber Material : 100% Virgin Polyester

Compliance:

- a) ASTM C 1116 (Standard Specification for Fiber Reinforced Concrete)
- b) IRC : SP : 46-2013, MORTH (Design and Construction of Fiber Reinforced Concrete Pavements)

Approvals:

- a) BTRA, Mumbai
- b) Bureau Veritas (INDIA) Pvt. Ltd., Bangalore



FIBERCRETE PF is a Monofilament Triangular Fiber for concrete reinforcement that complies with standard specification for Fiber Reinforced Concrete and Shotcrete, and is specifically designed to help mitigate the formation of shrinkage cracking in concrete. Typically used at a dosage rate of 0.9 kg/m<sup>3</sup>, FIBERCRETE PF have been shown to greatly reduce shrinkage cracking by as much as 88% when compared to plain concrete.

## 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 mixing

## PRIMARY APPLICATIONS

- Floor for industrial, commercial and residential concrete projects
- Footings, foundations, walls and tank applications
- Concrete pipe, vault structures and pre-cast / pre-stressed beams, PQC Roads, Parking Area, Pavers, Tunnels, Canals & All kinds of Plastering application.

## TECHNICAL INFORMATION

### TYPICAL ENGINEERING DATA

|                            |  |
|----------------------------|--|
| Material                   | Polyester                                    |
| Colour                     | Natural                                      |
| Specific Gravity           | 1.30   |
| Melting Point              | 240 °C                                       |
| Diameter / Thickness       | 20 Microns                                   |
| Available Lengths          | 6mm, 12mm, 24mm (Other lengths upon request) |
| Tensile Strength           | 1000 MPa                                     |
| Young's Modulus            | 4 GPa  |
| Aspect Ratio               | > 300  |
| Dispersion Coating         | 2%   |
| Electrical Conductivity    | Low  |
| Acid and Alkali Resistance | Excellent                                    |
| Corrosion Resistance       | Very High                                    |
| Water Absorption           | Nil  |
| Dosage                     | 0.9 Kg per Cubic Meter of Concrete           |

### CONCRETE LABORATORY TEST RESULTS (AS PER IS 516-1959 STANDARDS)

|                         |                        |
|-------------------------|------------------------|
| Grade of Concrete (FRC) | M25                    |
| Compressive Strength    | 35.3 N/mm <sup>2</sup> |
| Flexural Strength       | 5.5 N/mm <sup>2</sup>  |

## PACKAGING

Fibercrete PF is packed in 25 kg bags or 900 gms pack as required.

## SHELF LIFE

3 years in original, unopened packaging & stored in cool dry covered area.

## DIRECTIONS FOR USE

Fibercrete PF 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. Dosage of usually 125gm per 50Kg of Cement or 900 gms per cubic meter of concrete.

**OTHER SPECIFICATIONS CAN BE DONE UPON REQUEST.**



Mfd By:

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