



"NEO FIBERS FOR NEXT GENERATION CONCRETE"

## FIBERCRETE - FE (Twisted Fibrillated Ferro Fiber)



Fiber Material : 100% Virgin Polypropylene

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) Stedrant Technoclinic Pvt Ltd. (NABL Accredited Laboratory), Bangalore



FIBERCRETE FE is a Synthetic Twisted Fibrillated Ferro Fiber, which yields High-Performance Concrete Reinforcement that complies with Standard Specification for Fiber Reinforced Concrete. This heavy duty fiber offers long term durability, structural stability and effective temperature / shrinkage crack control. Typically used at a dosage rate of 4 Kg/m<sup>3</sup>.

## FEATURES/BENEFITS

- Increases Flexural toughness and Fatigue resistance.
- Enhances Durability, increases Impact and Shear resistance.
- Reduces crack width opening and increases Post cracking Residual strength.
- Controls and mitigates plastic shrinkage cracking.
- Reduces segregation and bleeding of water in concrete mix.
- Easily added to concrete mixture at any time prior to mixing.

## PRIMARY APPLICATIONS

- Industrial Floorings, Warehouse Flooring
- Mining Workshop Floorings
- Composite Steel Decks
- PQC Roads

## TECHNICAL INFORMATION

### TYPICAL ENGINEERING DATA

Material	Polypropylene
Colour	Cement Grey
Specific Gravity	0.91
Melting Point	165 °C
Diameter / Thickness	45 Microns
Available Lengths	36mm, 55mm (Other lengths upon request)
Tensile Strength	575 MPa
Young's Modulus	3 GPa
Aspect Ratio	> 800
Electrical Conductivity	Low
Acid and Alkali Resistance	Excellent
Corrosion Resistance	Very High
Water Absorption	Nil
Dosage	4 Kg per Cubic Meter of Concrete

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

Grade of Concrete (FRC)	M25
Compressive Strength	51.4 N/mm <sup>2</sup>
Flexural Strength	5.4 N/mm <sup>2</sup>

## PACKAGING

Fibercrete FE is packed in 4Kg packets.

## SHELF LIFE

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

## DIRECTIONS FOR USE

FIBERCRETE FE can be added to 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 4kg per cubic meter of concrete.

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



Mfd By:

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