



“NEO FIBERS FOR NEXT GENERATION CONCRETE”

FIBERCRETE - FF (Synthetic Fibrillated Mesh 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) Indian Institute of Technology Madras, Chennai
- b) Stedrant Technoclinic Pvt Ltd. (NABL Accredited Laboratory), Bangalore
- c) CIPET, Mysore and Hyderabad
- d) SHRIRAM Institute for Industrial Research, New Delhi



FIBERCRETE FF is a Synthetic Fibrillated Mesh Fiber for concrete reinforcement that complies with standard specifications for Fiber Reinforced Concrete and Shotcrete etc, and is specifically designed to help mitigate the formation of shrinkage cracking in concrete. Typically used at a dosage rate of 0.9 kg/m³, FIBERCRETE FF 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	Polypropylene
Colour	Natural
Specific Gravity	0.91
Melting Point	165 °C
Diameter / Thickness	40 Microns
Available Lengths	6mm, 12mm, 20mm (Other lengths upon request)
Tensile Strength	600 MPa
Young's Modulus	3.5 GPa
Aspect Ratio	> 150
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)	M40
Compressive Strength	50.5 N/mm ²
Flexural Strength	4.8 N/mm ²

PACKAGING

Fibercrete FF 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 FF 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 125gms 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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