



"NEO FIBERS FOR NEXT GENERATION CONCRETE"

FIBERCRETE - HY (Ferro Monofilament Hybrid 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
- b) Civil Aid Technoclinic Pvt Ltd. Bangalore.
- c) CIPET, Mysore and Hyderabad



FIBERCRETE HY is a combination of both Ferro Fiber and Monofilament Fiber of same lengths for concrete reinforcement that complies with standard specifications for Fiber Reinforced Concrete. This fiber is specifically designed to withstand high static loads and dynamic loads and to help mitigate the formation of shrinkage cracks in concrete. Typically used at a dosage rate of 5 Kg/m³.

FEATURES/BENEFITS

- Enhances Durability, increases Impact and Shear resistance.
- Controls and mitigates plastic shrinkage cracking.
- Avoids cracks at re-entrant corners of slab.
- Reduces crack width opening and increases Post cracking Residual strength.
- 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
- PQC Roads
- Precast slabs, Culverts, Deck slabs

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
Dispersion Coating	2%
Electrical Conductivity	Low
Acid and Alkali Resistance	Excellent
Corrosion Resistance	Very High
Water Absorption	Nil
Dosage	5 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 ²
Flexural Strength	5.4 N/mm ²

PACKAGING

Fibercrete HY is packed in 5Kg packets.

SHELF LIFE

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

DIRECTIONS FOR USE

FIBERCRETE HY 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 5kg per cubic meter of concrete.

OTHER SPECIFICATIONS CAN BE DONE UPON REQUEST.



Mfd By:

KALIYANI POLYMERS PVT LTD

#46/1, 11km off Kanakapura Rd, Doddakallasandra, Bangalore - 560 062, India.

Ph: +91-80-40991198 / Mobile: +91 9845919650 / +91 9886480224

Mail: sales@fibercrete.in | Website: www.fibercrete.in