

# HIND PP FIBER

POLYPROPYLENE FIBER REINFORCEMENT FOR USE IN CONCRETE & MORTAR



## DESCRIPTION

**Hind PP Fiber** is a superior quality, high intensity long chain polymer manufactured from Polypropylene by advance technology and special techniques. It conforms to **GB/T21120-2007** standard.

## USES

**Hind PP Fiber** when incorporated into concrete or mortar, it effectively prevents temperature variations, microcracks occurring due to plastic and dry shrinkage etc. It also adds to prevention and control of crack development and improves effectively anti-cracking, anti-infiltration, anti concussion and makes the concrete shockproof. It has its uses in PCC, RCC, Plastering, Shotcreting, Guiniting, Slabs, Foundations, Walls, Tanks, Pre-stressed Beams, Pipes, Concrete blocks, Railway Slippers, Roads, Pavements, Bridges and Dams.

## ADVANTAGES

- Reduces water permeability- making the concrete impervious and resulting to prevention of corrosion of the reinforcement in concrete.
- Reduces Rebound Loss in concreting process, hence directly bringing down the cost of raw materials.
- Durability of concrete/mortars is enhanced.
- Very good biological resistance
- Easy to use and easily dispersible in both aqueous and non-aqueous medium.
- No agglomeration and easily spreadable in concrete & mortar thus improving the mechanical strength and reducing cracks.
- Due to very thin fibers it gets spread evenly in mortar and improves the binding properties of the plaster between surface and substrate.
- Possess stable chemical properties, strong acid & alkali resistant and is recommended in all types of constructional activities.
- Environmental friendly and non hazardous.

## APPLICATION

**Hind PP Fiber** should be directly added to dry material and mixed for about a minute prior to addition of water. Dosage varies from 0.6-1.5 Kg/m<sup>3</sup> of the volume of the total cementitious material.

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## PROPERTIES

Identical Diameter (m)	35±5µm
Density (g/cm <sup>3</sup> )	0.91~0.93 g/cm <sup>3</sup>
Length (mm)	3, 6, 12, 15, 19 ± 1 mm
Modulus of Elasticity (mpa)	≥3500 mpa
Tensile Strength (mpa)	≥500 mpa
Elongation at Break (%)	≥ 15%
Melting Point (°C)	160~180°C

## PACKING

Available in 0.9 Kg & 18 Kg Bag.

## SHELF LIFE

Unlimited from the date of manufacture, provided the material is stored in a perfectly dry and cool place and in unopened conditions away from direct heat and sunlight. at temperature ranging between 2°C (Min.) and 50°C (Max.)

## HANDLING PRECAUTION

Hind PP Fiber is non-toxic and ingestion is to be avoided. Contact with eyes or skin causes irritation and must be avoided. It should not be stored near flame. Use of Hand gloves is recommended.

## IMPORTANT NOTICE :

Hindcon Chemicals maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products. The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.

Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behaviour can change as per the prevailing conditions at the time of applications. Since HINDCON CHEMICALS LIMITED has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use. The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.



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