

HIND PO FIBER 55/78

ALKALI RESISTANT POLYOLEFIN FIBER REINFORCEMENT
FOR USE IN CONCRETE & MORTAR



DESCRIPTION

Hind PO Fiber 55/78 is a superior quality, alkali - resistant polyolefin fibre. It conforms to **NBN EN 14889-2 (2006) & NBN EN ISO 6892-1 A3 (2009)** standard.

USES

- Hind PO Fiber 55/78 has its uses in Precast Concrete Elements, Pre-Covering of Tunnels, Extruded Roadways Structures, Rigid Concrete floors, Foundation Layers, Parking Areas & Airport Runways, Consolidation of walls, Marine/Coastal defence concrete, Pre-stressed Beams, Pipes, Concrete blocks, Railway Slippers, Roads, Pavements, Bridges and Dams.

ADVANTAGES

- Monofilament macro synthetic fibres used as a replacement of traditional steel reinforcement.
- High Modulus.
- High Strength & ductility.
- Good bond within concrete due to special shape.
- Special fibre coating ensuring excellent distribution throughout the concrete matrix.
- Non-corrosive , easy to use and safer than steel fibres
- Environmental friendly and non hazardous.
- Good resistance to all acids and alkalis.

APPLICATION

Hind PO Fiber 55/78 pucks can be put into the mixer directly or can be added by means of a dosage machine. The water soluble film around the fibres dissolves within seconds in the concrete. An additional mixing time of 1-3 mins will be required, depending on the dosage At the end of the mixing process the fibres gets distributed evenly.

DOSAGE

Depending on the structural requirements, the recommended quantity to be added is normally **4 to 7 Kg of Hind PO Fiber 55/78 macro fibres per Cubic Meter (m³)**.

PROPERTIES

| | |
|------------------------------|-----------------|
| Material | Modified Olefin |
| Density (Kg/m ³) | 0.90~0.94 |
| Fibre Length (mm) | 55 |
| Fibre Shape | Macro-Structo |
| Colour | Natural |
| Surface | Embossed |

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| | |
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| Diameter (mm) | 0.78 |
| Young's Modulus 10-30% (Gpa) | 5.7 ± 15% |
| Tensile Strength (Mpa) | 510 ± 15% |
| Number of Fibres per Kg | >40000 |
| Absorptive Capacity (%) | 0 |
| Chemical Resistance | Excellent |
| Alkali Resistance | Excellent |

PACKING

For simple application and dosage the fibres are packed into pucks, which is simply added to wet concrete. These pucks are wrapped in film which dissolves within seconds during mixing and the individual fibres are distributed evenly throughout the concrete mixture.

The fibre - pucks are packed in 20 Kg or 5 Kg boxes (600 Kg or 825 kg/pal).

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 PO Fiber 55/78 is non-ecological, non-toxic or safety risks. Unlike steel reinforcement there is no risk of injury from protruding fibres. Projecting fibres disappear with polishing. On unpolished concrete, they can be removed with a flame torch.

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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