

# SikaFiber® PPF-50 mm (Formerly Fibermesh 300)

## Fibrillated Polypropylene Concrete Fibres

**Description** SikaFiber® PPF is a micro-reinforcement system for concrete, consisting of 100 percent virgin homopolymer polypropylene fibrillated fibres with e3® patented technology containing no reprocessed olefin materials. Specifically engineered and manufactured in an ISO 9001:2000-certified facility for use as secondary concrete reinforcement.

**Where to Use** On all types of concrete which demonstrate a need for toughness, resistance to intrinsic cracking and improved water-tightness, such as:

- Slabs-on-ground
- Stucco
- Sloped paving
- Driveways
- Shotcrete
- Curbs
- Composite Metal Decks
- Sidewalks
- Overlays and toppings

**Advantages**

- Alternate system to Welded Wire Mesh (WWM) reinforcement for secondary reinforcing in concrete;
- Inhibits and controls the formation of intrinsic cracking in concrete;
- Improves impact-, shatter- and abrasion-resistance of concrete;
- Reinforces against water migration;
- Provides improved durability;
- Imparts toughness to hardened concrete;
- Reduces plastic shrinkage cracking in concrete
- Provides residual strength.

**Standards** SikaFiber® PPF is UL classified and meets the requirements of ASTM C1116 C/116 M, Type III fibre-reinforced concrete. For use as an alternate or in addition to the welded wire fabric used in Floor-Ceiling D700, D800, D900 Series Designs. Fibre may also be used in Floor-Ceiling Design Nos. G229, G243, G256 and G514.

Typical Data	
<b>Packaging</b>	50 mm length fibres (also available in multi-length) : 900 g degradable bags, 12/box, 27 boxes/pallet
<b>Fibre Type</b>	Fibrillated polypropylene
<b>Shelf Life and Storage</b>	5 years if stored in original and unopened packaging under dry conditions. Protect product from the moisture and rain.
Properties	
<b>Absorption</b>	Nil
<b>Specific Gravity</b>	0.91
<b>Electrical Conductivity</b>	Low
<b>Thermal Conductivity</b>	Low
<b>E-Modulus</b>	3.5 GPa
<b>Alkali resistance</b>	Excellent alkali resistance
<b>Acid and Salt Resistance</b>	High
<b>Melt Point</b>	162 °C
<b>Ignition Point</b>	593 °C

### How to Use

**Dosage** Standard recommended dosage rate of SikaFiber® PPF is 0.9 kg/m<sup>3</sup> of concrete, or as required by specific mix-design.

**Mixing** SikaFiber® PPF micro reinforcing is a mechanical, not chemical process. The addition of SikaFiber® PPF fibrillated fibre does not require any additional water or other mix design changes at normal rates. SikaFiber® PPF fibrillated fibres are added to the mixer before, during or after batching the other concrete materials. Mixing time and speed are specified in ASTM C 94.



# Construction

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**Tooling and Finishing**

Fibre-reinforced concrete can be finished using most finishing techniques. Exposed aggregate, broomed and tined surfaces do not present a problem.

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**Clean Up**

Use personal protective equipment (chemical resistant goggles/gloves/clothing). Ventilate area. In absence of adequate ventilation, use properly-fitted NIOSH respirator. Without direct contact, remove spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.

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**Health and Safety Information**

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the **most recent Safety Data Sheet** containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN  
FOR INDUSTRIAL USE ONLY

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The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelf life. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under [www.sika.ca](http://www.sika.ca).

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