

## PRODUCT DATA SHEET

# Sika® Fibermesh®-150F

### MICRO-SYNTHETIC MONOFILAMENT FIBRE

#### PRODUCT DESCRIPTION

Sika® Fibermesh®-150F micro reinforcement system for concrete - 100 percent virgin polypropylene monofilament fibres. Specifically engineered and manufactured in an ISO 9001 certified manufacturing facility. Sika® Fibermesh®-150F previously SikaFiber PPM.

#### USES

Applicable to all types of concrete which demonstrate a need for resistance to fire spalling, intrinsic cracking, and improved water tightness

- Tunnel
- High rise buildings
- Concrete framed structures
- Bridges / underpasses
- Multi story garages
- Schools
- Oil Platforms
- Precast
- Shotcrete

#### PRODUCT INFORMATION

<b>Packaging</b>	Sika® Fibermesh®-150F fibers are available in a variety of packaging options - soluble bags or bulk bags.
<b>Appearance / Colour</b>	<ul style="list-style-type: none"> <li>▪ <b>Fibre Type:</b> Monofilament micro synthetic fibre</li> <li>▪ <b>Fibre Network:</b> 125 million fibres per kilogram at 12mm in length</li> </ul>
<b>Shelf Life</b>	When stored in dry conditions shelf life is 5 years
<b>Storage Conditions</b>	Sika® Fibermesh®-150F should be stored in a dry warehouse. Protect product from the rain.
<b>Density</b>	0.91 g/cm <sup>3</sup> at +20°C
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>▪ <b>Length:</b> 12 mm</li> <li>▪ <b>Diameter:</b> 32µm (7 denier)</li> <li>▪ <b>Aspect Ratio:</b> 200 or 390</li> </ul>
<b>Melting Point</b>	320 °F (160 °C)

#### CHARACTERISTICS / ADVANTAGES

- Reduces fire explosive spalling
- Inhibits and controls the formation of intrinsic cracking in concrete
- Increases cohesion and reduces segregation
- Reduces settlement and bleeding
- Provides durability

#### APPROVALS / STANDARDS

- Complies with European Standard EN 14889-2:2006 Fibres for Concrete Part 2: Class 1a and carries CE marking
- UL Classified: Fibermesh 150. For use in Floor-Ceiling D700, D800, D900, G229, G243, G256, G514 Series Designs.
- Complies with ASTM C 1116/C 1116M, Type III fiber reinforced concrete and therefore ASTM D7508

# TECHNICAL INFORMATION

Resistance to Alkalinity                      Excellent

## APPLICATION INFORMATION

**Recommended Dosage**                      The dosage of the Sika® Fibermesh®-150F will vary according to the Fire Testing Requiements. Standard recommend dosage of Sika® Fibermesh®-150F according to the EN standard is 2 kg/m<sup>3</sup> of concrete.

**Dispensing**                                      Sika® Fibermesh®-150F in degradable bags can be added directly to the concrete mixing system after the batching of the other ingredients and mixed for 4 to 5 minutes or 70 revolutions.

**Application**

The addition of Sika® Fibermesh®-150F at the recommended dosage rates does not require any mix design or application changes. The fibre concrete can be mixed, sprayed or placed using conventional equipment.

**Tooling & Finishing**

Sika® Fibermesh®-150F can be finished by most finishing techniques.

## VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## ECOLOGY, HEALTH AND SAFETY

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

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## LEGAL NOTES

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 in accordance with Sika's recommendations. 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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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