

## PRODUCT DATA SHEET

# Sika® Fibermesh®-300

Micro-Synthetic Fibrillated Fiber

### DESCRIPTION

Sika® Fibermesh®-300, micro-reinforcement system for concrete is made up of 100 percent virgin homopolymer polypropylene fibrillated fibers with e3 patented technology containing no reprocessed olefin materials. Specifically engineered and manufactured in an ISO 9001 certified manufacturing facility for use as concrete reinforcement. Sika® Fibermesh®-300 previously SikaFiber PPF.

### USES

Sika® Fibermesh®-300 is a micro fiber that acts mechanically by supporting the aggregate within the concrete with multidimensional fiber network and helps to develop a uniform bleed in the concrete system. The fiber does not affect the curing process chemically and it does not absorb water. The Sika® Fibermesh®-300 can be used in all types of concrete applications to control plastic shrinkage and settlement cracking.

Typical applications include:

- Residential applications: sidewalks, driveways, decks, curbs
- Stucco
- Shotcrete
- Overlays & toppings
- Roads & pavements
- Tanks & pools

### PRODUCT INFORMATION

<b>Packaging</b>	Sika® Fibermesh®-300 is available in a variety of packaging options. The bags are packed into cartons and palletized.
<b>Appearance / Colour</b>	<ul style="list-style-type: none"> <li>▪ <b>Fiber Type:</b> Fibrillated micro synthetic fiber</li> <li>▪ <b>Fiber Network:</b> 185,000 fibers / lb</li> </ul>
<b>Shelf life</b>	When stored in dry conditions, shelf life is 5 years.
<b>Storage conditions</b>	Sika® Fibermesh®-300 should be stored in a dry warehouse. Protect product from the rain and direct sunlight.

### CHARACTERISTICS / ADVANTAGES

- Reduces plastic shrinkage and settlement cracking.
- Replacement for typical light gauge wire mesh - 6x6 W1.4/W1.4 (152x152 MW9.1/MW9.1)
- Improves impact, shatter and abrasion resistance
- Enhances durability
- Promotes uniform bleed and reduces bleed water
- Inhibits and controls the formation of intrinsic cracking in the concrete
- Reinforces against abrasion
- Reduces freeze / thaw damage
- Increases cohesion and reduces segregation

### APPROVALS / CERTIFICATES

- Complies with European Standard EN 14889-2:2006 Fibres for Concrete Part 2: Class Ia and carries the CE marking.
- UL/ULC Classification: For use as an alternate or in addition to the welded wire fabric used in floor-Ceiling D700, D800, D900, G229, G243, G256, & G514 Series Designs.
- Complies with ASTM C1116/ C1116M, Type III fiber reinforced concrete and therefore ASTM D7508.

## Dimensions

- **Length:** Graded 0.5 & 0.75 inches (12.7 & 19 mm). Also available in single cut lengths.
- **Diameter:** 0.01, 0.015, & 0.025 inches (0.24, 0.4, & 0.64 mm). Also available in single equivalent diameter.
- **Aspect Ratio:** Varies from 20 to 79

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## Melting point

324 °F (162 °C)

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## TECHNICAL INFORMATION

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### Resistance to alkalinity

Excellent

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## APPLICATION INFORMATION

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### Recommended dosage

The dosage of Sika® Fibermesh®-300 will vary according to the type of application and performance requirements. Standard recommended dosage rate of Sika® Fibermesh®-300 is 1.5 to 3 lb/cu yd (0.89 to 1.8 kg/m<sup>3</sup>) of concrete. Dosages outside the recommended dosage can be used to meet project specific requirements. If this is the case please contact your Sika representative for technical support.

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### Dispensing

Sika® Fibermesh®-300 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®-300 at the normal recommended dosage rate does not require any mix design or application changes. The fiber concrete can be mixed, sprayed or placed using conventional equipment.

#### Tooling & Finishing

Sika® Fibermesh®-300 can be finished by most finishing techniques as indicated in ACI-302.

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## BASIS OF PRODUCT DATA

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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## 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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### **Product Data Sheet**

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