BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET

# Sika® Fibermesh®-300

MICRO-SYNTHETIC FIBRILLATED FIBER

## PRODUCT DESCRIPTION

Sika® Fibermesh®-300, micro-reinforcment system for concrete is made up of 100 percent virgin homopolymer polypropylene firbrillated 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.

## WHERE TO USE

Sika® Fibermesh®-300 is a micro fiber that acts mechanically by supporting the aggregate within the concrete with multidimentional 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

## 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.

## PRODUCT INFORMATION

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| **CSC MasterFormat®** | 03 05 00 |
| **Packaging** | Sika® Fibermesh®-300 is available in 900 gram bags, 13 bags to a carton and 27 cartons per pallet. |

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| **Shelf Life** | When stored in dry conditions, shelf life is 5 years. |
| **Storage Conditions** | Sika® Fibermesh®-300 should be stored in a dry warehouse. Protect product from the rain and direct sunlight. |
| **Appearance / Colour** | ▪ **Fiber Type:** Fibrillated micro synthetic fiber<br>▪ **Fiber Network:** 408,000 fibers / kg. |
| **Dimensions** | ▪ **Length:** Graded 12.7 & 19 mm. Also available in single cut lengths.<br>▪ **Diameter:** 0.24, 0.4, & 0.64 mm. Also available in single equivalent diameter.<br>▪ **Aspect Ratio:** Varies from 20 to 79 |
| **Melting Point** | 162 °C |

## TECHNICAL INFORMATION

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| **Resistance to Alkalinity** | Excellent |

## 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 0.89 to 1.8 kg/m³ 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. |

## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

## ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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