



## PRODUCT DATA SHEET

# Sika® Fibermesh® HP

### MICRO-SYNTHETIC MONOFILAMENT FIBER

#### PRODUCT DESCRIPTION

Sika® Fibermesh® HP, micro-reinforcement system for concrete is made up of 100 percent virgin homopolymer polypropylene ultra type multifilament (monofilament) micro fibers, containing no reprocessed olefin materials. Specifically engineered and manufactured in an ISO 9001 certified manufacturing facility for use as concrete reinforcement. Previously named Fibermesh 150HP and SikaFiber HP.

#### WHERE TO USE

Sika® Fibermesh® HP is an all ultra type of micro fiber that acts mechanically by supporting the aggregate within the concrete with a multi-dimensional fiber network and helps 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® HP can be used in all types of concrete applications to control plastic shrinkage and settlement cracking. Typical applications include:

- Slabs on ground
- Residential applications: sidewalks, driveways, decks, curbs
- Stamped / Stained / Polished Finishes
- Precast elements
- Overlays / Toppings
- Stucco
- Shotcrete
- Roads / Pavements
- Bridge Decks
- Self compacting concrete

#### CHARACTERISTICS / ADVANTAGES

- Lower dosage rates for equivalent performance
- Reduces plastic shrinkage cracking
- Reduces plastic settlement cracking
- Improves impact, shatter and abrasion resistance
- Enhances durability
- Promotes uniform bleed and reduces bleed water
- Inhibits and control the formation of intrinsic cracking in the concrete
- Increases cohesion and reduces segregation
- Reinforces against abrasion
- Reduces freeze / thaw damage.

#### APPROVALS / CERTIFICATES

- Complies with European Standard EN 14889-2:2006 Fibres for Concrete Part 2: Class Ia
- Complies with ASTM C1116/C1116M, Type III fiber reinforced concrete and therefore ASTM D7508.

## PRODUCT INFORMATION

CSC MasterFormat®	03 05 00
Packaging	Sika® Fibermesh® HP are available in 0.3 kg bags, 35 bags to a carton and 27 cartons to a pallet.
Shelf Life	When stored in dry conditions, shelf life is 5 years.
Storage Conditions	Sika® Fibermesh® HP should be stored in a dry warehouse. Protect product from the rain and direct sunlight.
Appearance / Colour	<ul style="list-style-type: none"><li>▪ <b>Fiber Type:</b> Monofilament micro synthetic fiber</li><li>▪ <b>Fiber Network:</b> 231,000,000 fibers / kg</li></ul>
Dimensions	<ul style="list-style-type: none"><li>▪ <b>Length:</b> Graded 6 &amp; 12 mm</li><li>▪ <b>Diameter:</b> 0.03 mm</li><li>▪ <b>Aspect Ratio:</b> 200 to 400</li></ul>
Melting Point	162 °C

## TECHNICAL INFORMATION

Resistance to Alkalinity	Excellent
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## APPLICATION INFORMATION

Recommended Dosage	The dosage of Sika® Fibermesh® HP will vary according to the type of application and performance requirements. Standard recommended dosage rate of Sika® Fibermesh® HP is 0.3 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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## 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](http://www.sika.ca)

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### **Other locations**

Boisbriand (Quebec)  
Brantford; Cambridge;  
Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
Surrey (British Columbia)

### **Product Data Sheet**

Sika® Fibermesh® HP  
January 2024, Version 03.03  
021408021010000141

