BUILDING TRUST

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. Specifically engineered and manufactured in an ISO 9001 certified manufacturing facility for use as concrete reinforcement. Previously named Fibermesh 150HP and SikaFiber HP.

USES

Sika® Fibermesh® HP is an ultra type of micro fiber that acts mechanically by supporting the aggregate within the concrete with multidimensional 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
- Helps reduce cracking due to freeze / thaw

ENVIRONMENTAL INFORMATION

A Type III Product-Specific Environmental Product Declaration (EPD) and a Manufacturer Inventory are available for Sika® Fibermesh® HP. For further information, please visit:
https://usa.sika.com/en/sustainability.html

APPROVALS / STANDARDS

- 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

Fiber Type	Monofilament micro synthetic fiber
Packaging	Sika® Fibermesh® HP are available in a variety of packaging options. The 0.5 lb bag is a standard size. The bags are packed into cartons and palletized.
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.
Dimensions	▪ **Length:** Graded 1/4 & 1/2 inch (6 & 12 mm) ▪ **Diameter:** 0.0012 inch (0.03 mm) ▪ **Aspect Ratio:** 200 to 400
Melting Point	324 °F (162 °C)
Fiber Volume Content	105,000,000 fibers / lb

TECHNICAL INFORMATION

Resistance to Alkalinity	Excellent

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 0.5 lb/ cu yd (0.3 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

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**
- **FOR INDUSTRIAL USE ONLY**
- **FOR PROFESSIONAL USE ONLY**

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product’s shelf life. User determines suitability of product for intended

use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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