

## PRODUCT DATA SHEET

# Sika® Fibermesh®-150

### MICRO-SYNTHETIC MONOFILAMENT FIBER

#### PRODUCT DESCRIPTION

Sika® Fibermesh®-150, micro-reinforcement system for concrete—100 percent virgin homopolymer polypropylene multifilament (monofilament) fibers with e3® patented technology containing no reprocessed olefin materials. Specifically engineered and manufactured in an ISO 9001 certified manufacturing facility. Sika® Fibermesh®-150 is designed to control plastic shrinkage and settlement cracking in concrete. Sika® Fibermesh®-150 was previously SikaFiber PPM.

#### USES

Sika® Fibermesh®-150 act mechanically by supporting the aggregate within the concrete with multidimensional fiber network and developing a uniform bleed system. The fiber does not affect the curing process chemically and does not absorb water. The Sika® Fibermesh®-150 can be used in all types of concrete applications to control plastic shrinkage and settlement cracking.

Typical applications include:

- Slabs on ground
- Residential applications: side-walks, driveways, decks, curbs
- Precast elements,
- Overlays / toppings
- Stucco
- Shotcrete
- Roads / Pavements
- Bridge Decks

#### CHARACTERISTICS / ADVANTAGES

- 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 controls the formation of intrinsic cracking in concrete
- Increases cohesion and reduces segregation
- Reinforces against abrasion
- Reduces freeze/thaw damage

#### APPROVALS / STANDARDS

- Sika® Fibermesh®-150 is UI/Ulc certified and approved for usage in floor-ceiling D700, D800, D900, G229, G243, G256 & G514 series designs.
- Complies with European Standard EN 14889-2:2006 Fibres for Concrete Part 2: Class Ia and carries the CE marking
- Complies with ASTM C1116/C1116M, Type III fiber reinforced concrete and therefore ASTM D7508

## PRODUCT INFORMATION

|                           |  |
|---------------------------|--|
| <b>Packaging</b>          | Sika® Fibermesh®-150 fibers are available in a variety of packaging options. The 1.0 lb degradable bag (0.45 kg) is a standard size. The bags are packed into cartons and palletized.  |
| <b>Appearance / Color</b> | <ul style="list-style-type: none"><li>▪ <b>Fiber Type:</b> Monofilament micro synthetic fiber</li><li>▪ <b>Fiber Network:</b> 22,000,000 fibers/lb</li></ul>   |
| <b>Shelf Life</b>         | When stored in dry conditions shelf life is 5 years  |
| <b>Storage Conditions</b> | Sika® Fibermesh®-150 should be stored in a dry warehouse. Protect product from the rain.   |
| <b>Density</b>            | 0.91   |
| <b>Dimensions</b>         | <ul style="list-style-type: none"><li>▪ <b>Length:</b> Graded 0.5 &amp; 0.75 inches (12.7 &amp; 19 mm). Also available in single cut length.</li><li>▪ <b>Diameter:</b> Graded 0.0012 &amp; 0.002 inches (0.03 &amp; 0.05 mm). Also available in single equivalent diameter.</li><li>▪ <b>Aspect Ratio:</b> Varies from 250 to 630</li></ul> |
| <b>Melting Point</b>      | 324 °F (162 °C)  |

## TECHNICAL INFORMATION

|                                 |           |
|---------------------------------|-----------|
| <b>Resistance to Alkalinity</b> | Excellent |
|---------------------------------|-----------|

## APPLICATION INFORMATION

|                           |  |
|---------------------------|--|
| <b>Recommended Dosage</b> | The dosage of the Sika® Fibermesh®-150 will vary according to the type of application and performance requirements. Standard recommended dosage ratio of Sika® Fibermesh®-150 is between 0.75 - 1.5 lbs/cu yd (0.5 - 0.9 kg/m <sup>3</sup> ) of concrete. Dosages outside the recommended dosage range can be used to meet project specific requirements. If this is the case please contact your Sika representative for technical support.   |
| <b>Mixing</b>             | <p>Sika® Fibermesh®-150 in degradable bag 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.</p> <p><b>Application</b><br/>The addition of Sika® Fibermesh®-150 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.</p> <p><b>Tooling &amp; Finishing</b><br/>Sika® Fibermesh®-150 can be finished by most finishing techniques as indicated in ACI-302.</p> |

## 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.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## 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.

## 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](http://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.

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### Sika Corporation

201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: +1-800-933-7452  
Fax: +1-201-933-6225  
[usa.sika.com](http://usa.sika.com)

### Sika Mexicana S.A. de C.V.

Carretera Libre Celaya Km. 8.5  
Fracc. Industrial Balvanera  
Corregidora, Queretaro  
C.P. 76920  
Phone: 52 442 2385800  
Fax: 52 442 2250537



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