

## PRODUCT DATA SHEET

# Sika® Fibermesh® FN

### MICRO-NYLON MONOFILAMENT FIBER

#### PRODUCT DESCRIPTION

Sika® Fibermesh® FN is a monofilament nylon micro-fiber for use as secondary reinforcement in concrete. Manufactured from 100% virgin nylon (polyamides). Sika® Fibermesh® FN is designed to control plastic shrinkage and settlement cracking as secondary concrete reinforcement.

#### USES

Sika® Fibermesh® FN act mechanically by supporting the aggregate within the concrete with multidimensional fiber network and developing a uniform bleed system. Sika® Fibermesh® FN can retain approximately 4-5% of their weight in water, slowing bleed water, aiding in hydration and reducing crazing cracking. Typical applications include:

- Slabs on ground
- Architectural concrete
- Precast elements
- Stucco

#### PRODUCT INFORMATION

<b>Packaging</b>	Sika® Fibermesh® FN fibers are available in a variety of packaging options in degradable bags.
<b>Appearance / Color</b>	<ul style="list-style-type: none"> <li>▪ <b>Fiber Type:</b> Monofilament micro nylon fiber</li> <li>▪ <b>Fiber Network:</b> 66,454,000 (0.75") or 99,681,000 (0.50") fibers/lb</li> </ul>
<b>Shelf Life</b>	When stored in dry conditions shelf life is 5 years.
<b>Storage Conditions</b>	Sika® Fibermesh® FN should be stored in a dry warehouse. Protect product from the rain.
<b>Density</b>	1.14

#### CHARACTERISTICS / ADVANTAGES

- Reduces plastic shrinkage cracking
- Reduces plastic settlement cracking
- Improves hydration and reduces crazing cracking (hydrophilic fibers)
- Improves impact, shatter and abrasion resistance
- UV stability
- High fiber count
- Excellent tensile strength
- High elasticity
- Reinforces against abrasion
- Reduces freeze/thaw damage

#### APPROVALS / STANDARDS

- Complies with ASTM C1116/C1116M

Dimensions	<ul style="list-style-type: none"><li>▪ <b>Length:</b> 0.5 or 0.75 inches (12.7 &amp; 19 mm).</li><li>▪ <b>Diameter:</b> 0.0008 inches (0.02 mm).</li></ul>
Melting Point	493 °F (256 °C)

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## TECHNICAL INFORMATION

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Water Absorption	4 to 5%
Resistance to Alkalinity	High

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## APPLICATION INFORMATION

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Recommended Dosage	The dosage of the Sika® Fibermesh® FN will vary according to the type of application and performance requirements. Standard recommended dosage ratio of Sika® Fibermesh® FN is between 1 lbs/cu yd 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.
Mixing	Sika® Fibermesh® FN 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. <b>Application</b> The addition of Sika® Fibermesh® FN at the normal recommended dosage rate does not require any mix design or application changes. The fiber concrete can be mixed or placed using conventional equipment. <b>Tooling &amp; Finishing</b> Sika® Fibermesh® FN can be finished by most finishing techniques as indicated in ACI-302.

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## 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.

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.

## 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

## 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.

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.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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### Product Data Sheet

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