

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

Fiber Volume Content	33,227,000 (0.25") or 99,681,000 (0.75") fibers/lb
Packaging	Sika® Fibermesh® FN fibers are available in a variety of packaging options in degradable bags.
Shelf Life	When stored in dry conditions shelf life is 5 years.
Storage Conditions	Sika® Fibermesh® FN should be stored in a dry warehouse. Protect product from the rain.
Fiber Type	monofilament micro nylon fiber
Dimensions	<ul style="list-style-type: none"> ▪ Length: 0.25 or 0.75 inches (6 & 19 mm). ▪ Diameter: 0.0008 inches (0.02 mm).

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
- Helps reduce crazing from freeze/thaw

APPROVALS / STANDARDS

- Complies with ASTM C1116/C1116M

Density	1.14
Melting Point	493 °F (256 °C)

TECHNICAL INFORMATION

Water Absorption	4 to 5%
Resistance to Alkalinity	High

APPLICATION INFORMATION

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.
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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.

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.**

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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