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

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

PRODUCT INFORMATION

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<th>Packaging</th>
<th>Sika® Fibermesh® FN fibers are available in a variety of packaging options in degradable bags.</th>
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| Appearance / Color         | • Fiber Type: Monofilament micro nylon fiber  
|                            | • Fiber Network: 66,454,000 (0.75") or 99,681,000 (0.5") fibers/lb                          |
| 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.     |
| Density                    | 1.14                                                                                         |
Dimensions
- **Length**: 0.5 or 0.75 inches (12.7 & 19 mm).
- **Diameter**: 0.0008 inches (0.02 mm).

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.

**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.

**Application**: 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.

**Tooling & Finishing**: Sika® Fibermesh® FN can be finished by most finishing techniques as indicated in ACI-302.

**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

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