BUILDING TRUST

PRODUCT DATA SHEET

Sika® Fibermesh® AC

MICRO MONOFILAMENT ACRYLIC FIBER

PRODUCT DESCRIPTION

Sika® Fibermesh® AC is a new generation of micro monofilament acrylic fiber for use in concrete. Sika® Fibermesh® AC is specifically designed for the purpose of controlling plastic shrinkage and settlement cracking.

USES

Sika® Fibermesh® AC act mechanically by supporting the aggregate within the concrete with multidimensional ultra fine 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® AC can be used in all types of concrete applications to control plastic shrinkage and settlement cracking. Typical applications include:

- Residential or commercial slabs on ground
- Slab on ground overlays,
- Precast applications,
- Stucco,
- Shotcrete
- Architectural concrete

CHARACTERISTICS / ADVANTAGES

- Higher fiber count per pound than standard monofilament fibers.
- Virtually invisible in concrete.
- Allows for lower dosage compared to other monofilament types of fiber.
- Reduces the formation of plastic shrinkage cracking in concrete.
- Provides multi-dimensional reinforcement.
- Improves impact, shatter and abrasion resistance.
- Enhances durability and toughness of concrete.
- Reduces bleeding.
- Excellent finishability

APPROVALS / STANDARDS

Sika® Fibermesh® AC meets the requirements of ASTM C-1116, Type III.

PRODUCT INFORMATION

Packaging	Sika® Fibermesh® AC fibers are available in a variety of packaging options. The bags are packed into cartons and palletized.
Shelf Life	When stored in dry conditions shelf life is 5 years
Storage Conditions	Sika® Fibermesh® AC should be stored in a dry warehouse. Protect product from the rain.
Dimensions	▪ **Length:** Graded 0.25 & 0.5 inches (6 & 12.7 mm).

SYSTEM INFORMATION

Compatibility	Use of Sika® Fibermesh® AC with some polycarboxylate based admixtures may cause an increase in air content within the concrete. Trial mixes must be conducted to verify the affect of using SikaFiber® AC 100 along with these admixtures on the air content of concrete.

APPLICATION INFORMATION

Recommended Dosage	The dosage of the Sika® Fibermesh® AC will vary according to the type of application and performance requirements. Standard recommended dosage ratio of Sika® Fibermesh® AC is between 0.5 - 1.0 lbs/cu yd (0.3 - 0.6 kg/m³) 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® AC 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® AC 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. **Tooling & Finishing** Sika® Fibermesh® AC can be finished by most finishing techiques 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**

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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