BUILDING TRUST
CONSTRUIRE LA CONFIANCE

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 desinged to control plastic shinkage and settlement cracking in concrete. Sika® Fibermesh®-150 was previously SikaFiber PPM.

WHERE TO USE

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
- Helps reduce cracking due to freeze / thaw

APPROVALS / CERTIFICATES

- Sika® Fibermesh®-150 is UI/Ulc certified and approved for usage in floor-ceiling D700, D800, D900, G229, G243, G256 & G514 series designs.
- Comples 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

Packaging	Sika® Fibermesh®-150 fibers are available in a variety of packaging options. The 20 x 0.6 kg ML is a standard size. The bags are packed into cartons and palletized, 27 cartons to a pallet.
Shelf Life	When stored in dry conditions shelf life is 5 years
Storage Conditions	Sika® Fibermesh®-150 should be stored in a dry warehouse. Protect product from the rain.
Appearance / Colour	▪ **Fiber Type:** Monofilament micro synthetic fiber ▪ **Fiber Network:** 22,000,000 fibers/lb
Dimensions	▪ **Length:** Graded (ML) 12.7 & 19 mm. Also available in single cut length. ▪ **Diameter:** Graded 0.03 & 0.05 mm. Also available in single equivalent diameter. ▪ **Aspect Ratio:** Varies from 250 to 630
Density	0.91
Melting Point	324 °F (162 °C)

TECHNICAL INFORMATION

Resistance to Alkalinity	Excellent

APPLICATION INFORMATION

Recommended Dosage	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 0.6 - 0.9 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®-150 in degradable bags 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.

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising

out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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