

PRODUCT DATA SHEET

Sika® Fibermesh®-150

MICRO-SYNTHETIC MONOFILAMENT FIBRE

PRODUCT DESCRIPTION

Sika® Fibermesh®-150, micro-reinforcement system for concrete—100 percent virgin polypropylene monofilament fibers containing no reprocessed olefin materials. Specifically engineered and manufactured in an ISO 9001 certified manufacturing facility. Sika® Fibermesh®-150 is designed to control plastic shrinkage and settlement cracking in concrete. Sika® Fibermesh®-150 was previously SikaFiber PPM.

USES

Sika® Fibermesh®-150 act mechanically by supporting the aggregate within the concrete with multidimensional fibre network and developing a uniform bleed system. The fibre 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
- Reduces freeze/thaw damage

APPROVALS / STANDARDS

- Sika® Fibermesh®-150 is UI/Ulc certified and approved for usage in floor-ceiling D700, D800, D900, G229, G243, G256 & G514 series designs.
- Complies 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 bags are packed into cartons and palletized.
Appearance / Colour	▪ Fiber Type: Monofilament micro synthetic fiber ▪ Fiber Network: 9,970,000 fibers/kg
Shelf Life	When stored in dry conditions shelf life is 5 years
Storage Conditions	Sika® Fibermesh®-150 should be stored in a dry environment. Protect product from the rain.
Density	0.91
Dimensions	▪ Length: 6, 12 & 19 mm ▪ Diameter: 0.03 & 0.05 mm. Also available in single equivalent diameter. ▪ Aspect Ratio: Varies from 250 to 630
Melting Point	324 °F (162 °C)

TECHNICAL INFORMATION

Resistance to Alkalinity	Excellent
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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 0.5 - 0.9 kg/m ³ 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.
Dispensing	Sika® Fibermesh®-150 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®-150 at the normal recommended dosage rate does not require any mix design or application changes. The fibre concrete can be mixed, sprayed or placed using conventional equipment. Tooling & Finishing Sika® Fibermesh®-150 can be finished by most finishing techniques.

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data

Sheet for the exact description of the application fields.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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.

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Product Data Sheet

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