

PRODUCT DATA SHEET

Sika® Fibermesh®-150

MICRO-SYNTHETIC MONOFILAMENT FIBER

DESCRIPTION

Sika® Fibermesh®-150, micro-reinforcement system for concrete—100 percent virgin homopolymer polypropylene multifilament (monofilament) fibers.

USES

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

FEATURES

- Increase resistance to explosive spalling
- 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
- Reduces freeze/thaw damage

CERTIFICATES AND TEST REPORTS

- 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 1 kg bags and 200 kg bulk bags. The 1 kg degradable bag is a standard size. The bags are packed into cartons and palletized.
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 and colour	▪ Fiber Type: Monofilament micro synthetic fibre
Dimensions	▪ Length: 12 mm ▪ Diameter: 0.03 mm
Density	0.91 g/cm ³
Melting point	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 1.0 kg/m³ of concrete. For explosive spalling resistance the dosage rate will be between 1.0 kg/m³ and 2.0 kg/m³, depending on the design requirements. 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.

BASIS OF PRODUCT DATA

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.

IMPORTANT CONSIDERATIONS

Depending on the dosage rate and the mix design, Sika® Fibermesh®-150 might reduce the workability of concrete, especially in high-slump and super-workable concrete.

Adequate mix design and preliminary trials shall be accomplished to achieve the target slump/spread.

ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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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.