

PRODUCT DATA SHEET

Sika® Fibermesh®-150 (GB)

MICRO-SYNTHETIC MONOFILAMENT FIBRE

PRODUCT DESCRIPTION

Sika® Fibermesh®-150 (GB) micro reinforcement system for concrete - 100 percent virgin polypropylene monofilament fibres. Specifically engineered and manufactured in an ISO 9001 certified manufacturing facility. Sika® Fibermesh®-150 (GB) is designed to control plastic shrinkage and settlement cracking in concrete. Sika® Fibermesh®-150 (GB) was previously SikaFiber PPM.

USES

Sika® Fibermesh®-150 (GB) act mechanically by supporting the aggregate within the concrete with multi-dimensional fibre network and developing a uniform bleed

system. The fibre does not affect the curing process and does not absorb water. Sika® Fibermesh®-150 (GB) can be used in all types of concrete applications to control plastic shrinkage and settlement cracking. Typical applications include:

- Ground-supported slabs
- Residential applications: pavements, driveways, curbs
- Precast elements

- Overlays / toppings
- 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
- Increases cohesion and reduces segregation
- Reduces freeze/thaw damage

APPROVALS / STANDARDS

Conforms to the requirements of EN 14889-2:2006 Fibres for Concrete - Polymer Fibres, Class 1a. DoP 62479442, certified by Factory Production Control Body 1136 and provided with the CE mark DoP 93958791, certified by Factory Production Control Body 1136 and provided with the UKCA mark

PRODUCT INFORMATION

Packaging	Sika® Fibermesh®-150 (GB) 6mm: 0.9 kg pulpable bags Sika® Fibermesh®-150 (GB) 12mm: 0.6 & 0.9 kg pulpable bags
Appearance / Colour	Monofilament micro synthetic fibre
Shelf Life	5 years from date of production if stored in dry, unopened and undamaged packaging.
Storage Conditions	Protected from moisture and direct sunlight
Density	0.91 g/cm ³ at +20°C

Dimensions

	Sika® Fibermesh®-150 (GB) 6mm	Sika® Fibermesh®-150 (GB) 12mm
Length	6 mm	12 mm
Equivalent Diameter	34 µm	34 µm

Melting Point 164 °C (327 °F)

TECHNICAL INFORMATION

Resistance to Alkalinity Excellent

APPLICATION INFORMATION

Recommended Dosage 0.6 - 0.9 kg/m³

Dispensing Sika® Fibermesh®-150 (GB) 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.

Application

The addition of Sika® Fibermesh®-150 (GB) at the recommended dosage rates does not require any mix design or application changes. The fibre concrete can be mixed, sprayed or placed using conventional equipment.

Finishing

Sika® Fibermesh®-150 (GB) can be finished by most standard 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.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

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).

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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.

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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