

PRODUCT DATA SHEET

SikaFiber® PPM-12

Polypropylene microfibres for concrete and mortars

DESCRIPTION

SikaFiber® PPM-12 are 12 mm long monofilament polypropylene fibres for use in concrete and mortars.

USES

For most types of non-structural concrete and cementitious mortars which need to reduce the incidence of shrinkage cracking:

- Ground bearing slabs
- Screeds and overlays
- Renders and plasters
- Precast concrete elements
- Sprayed applications
- Extruded concrete
- Interior and exterior applications

CHARACTERISTICS / ADVANTAGES

- Safe and easy to use
- Improves durability
- Reduces tendency for plastic and drying shrinkage cracking
- Reduces plastic settlement
- Reduces permeability
- Reduces slab curling
- Increases impact resistance
- Reduces spalling at high temperatures

APPROVALS / STANDARDS

CE Marking and Declaration of Performance to EN 14889-2 – Polymer Fibers for use in concrete mortar and grout

PRODUCT INFORMATION

Chemical Base	100 % polypropylene	
Packaging	600 g bags.	
Appearance / Colour	Transparent fibres	
Shelf Life	24 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between + 5 °C and +30 °C. Always refer to packaging.	
Density	~0.91 g/cm ³	
Product Declaration	Class 1a: Mono-filamented	(EN 14889-2)
Dimensions	Diameter	32 µm
	Length	12 mm
Melting Point	~160 °C	

TECHNICAL INFORMATION

Specific tensile strength	~30 cN/tex
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APPLICATION INFORMATION

Recommended Dosage	~600 g per m ³ concrete. To reduce spalling at high temperatures 1000–2000 g per m ³ concrete
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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.

LIMITATIONS

- For best results use a good quality concrete / mortar.
- Fibres will not improve the quality of poor concrete or mortar
- SikaFiber® PPM-12 is compatible with other Sika admixtures
- Do not use to replace structural steel reinforcement

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 this 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)

APPLICATION INSTRUCTIONS

DISPENSING

Add the fibres with the dry aggregates taking care to evenly distribute the fibres throughout the mix. The fibres can be added when all the mix components have been added, although the mixing time will need to be increased to ensure a uniform fibres distribution (as a guide add 1 extra minute for every 1m³). Do not add the fibres directly into the mixing water.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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