

PRODUCT DATA SHEET

SikaFiber®-618 PPM

Polypropylene microfibres for concrete and mortar

DESCRIPTION

SikaFiber®-618 PPM are 6 mm long mono-filament polypropylene fibres for use in concrete and mortars.

USES

For most types of non-structural cementitious mortars and concrete with 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 Fibres for use in concrete mortar and grout

PRODUCT INFORMATION

Chemical Base	100 % polypropylene	
Packaging	1 kg soluble bags (box with 21 bags).	
Appearance / Colour	Natural (white in appearance)	
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 +35 °C. Always refer to packaging.	
Density	~0.91 g/cm ³	
Dimensions	Diameter	18 µm
	Length	6 mm
Product Declaration	EN 14889-2: Class Ia: mono-filamented	
Melting Point	~160 °C	

TECHNICAL INFORMATION

Specific tensile strength ~3.0 cN/dtex

APPLICATION INFORMATION

Recommended Dosage 1 kg per 1m³ concrete. To reduce spalling at high temperatures, contact Sika Technical Services for additional information

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®-618 PPM is compatible with other Sika admixtures.
- Do not use to replace structural steel reinforcement.

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 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 throughout the mix. The fibres can be added when all the mix components have been added although mixing time may need to be extended to ensure a uniform fibre distribution. 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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