

# 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. Suitable for use in hot and tropical climatic conditions.

#### 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

#### PRODUCT INFORMATION

<b>Composition</b>	100 % polypropylene	
<b>Packaging</b>	In bulk / WS bag from 300 grams up to 1000 grams. Refer to current price list for packaging variations.	
<b>Appearance and colour</b>	Transparent fibres	
<b>Shelf life</b>	36 months from date of production	
<b>Storage conditions</b>	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.	
<b>Density</b>	~0,91 g/cm <sup>3</sup>	
<b>Dimensions</b>	Diameter	32 µm
	Length	12 mm
<b>Product declaration</b>	Class 1a: Mono-filamented	(EN 14889-2)
<b>Melting point</b>	~160 °C	

## TECHNICAL INFORMATION

Tensile strength

467-548 MPa

(EN 14889-2)

## APPLICATION INFORMATION

Recommended dosage

~600 g or 900 g per m<sup>3</sup> concrete.

To reduce spalling at high temperatures 1000–2000 g per m<sup>3</sup> concrete

## BASIS OF PRODUCT DATA

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

## IMPORTANT CONSIDERATIONS

- 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 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).

## 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 1m<sup>3</sup>). Do not add the fibres directly into the mixing water.

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ISO 9001: Sika UAE LLC,  
Sika Gulf B.S.C. (C),  
Sika Saudi Arabia Limited,  
Sika International Chemicals LLC  
ISO 14001: Sika UAE LLC,  
Sika Gulf B.S.C. (C),  
Sika Saudi Arabia Limited,  
Sika International Chemicals LLC,  
ISO 45001: Sika UAE LLC,  
Sika Gulf B.S.C. (C),  
Sika International Chemicals LLC.

All products are supplied under  
a management system certified  
to conform to the requirements  
of the quality, environmental  
and occupational health &  
safety standards ISO 9001,  
ISO 14001 and ISO 45001.

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