

## PRODUCT DATA SHEET

# SikaFiber® PPM 48/19

Blended Polyolefin Macro/Micro – synthetic fibres designed to enhance the distribution and performance of fibre reinforcement

### DESCRIPTION

SikaFiber® PPM 48/19 is a blend of Macro Structural Synthetic Fibres and Micro Monofilament Fibres which are designed to an optimum gradation. This engineered combination of Macro/Micro fibres provides improved interfacial bonding and flexural toughness efficiency.

### USES

- Fibrecrete/shotcrete
- Ground supported slabs
- External pavements
- Nonmagnetic applications
- Composite metal decks
- Roads
- Precast
- Sea defence
- Control and reduce plastic shrinkage cracking
- Sprayed concrete
- Slope stabilization

### PRODUCT INFORMATION

<b>Packaging</b>	SikaFiber® PPM 48/19 is packed in 2.3kg boxes consisting of 2kg of macro fibre component and a biodegradable bag with 0.3kg of micro fibre. Each box is designed for fast dispersion within the concrete mix. SikaFiber® PPM 48/19 can be packed on pallets or most other combinations if required.
<b>Shelf life</b>	N/A
<b>Storage conditions</b>	Store protected from the weather.

### CHARACTERISTICS / ADVANTAGES

- Non magnetic
- Rustproof
- Requires no minimum amount of concrete cover
- Is always placed in compliance with the codes
- Durability is enhanced
- Safer and easier than traditional reinforcement
- Environmentally friendly recycled packaging
- SikaFiber® PPM 48/19 concrete can be pumped, sprayed or placed using conventional equipment.

### APPROVALS / CERTIFICATES

Macro fibre complies with EN 14489-2 Class 2 and micro with Class 1a. SikaFiber® PPM 48/19 meets the requirements of ASTM C1116 Type III.

# TECHNICAL INFORMATION

<b>Specific advice</b>	SikaFiber® PPM 48/19 reinforcing is a mechanical, not a chemical process. Due to fibre efficiency, minor mix design modifications may be required depending on the application.
<b>Recommended dosage</b>	The typical dose rate for SikaFiber® PPM 48/19 is 2.3 kg per m <sup>3</sup> . Higher dose rates up to 6.9 kg per m <sup>3</sup> can be used as the performance requirements dictate.
<b>Compatibility</b>	SikaFiber® PPM 48/19 is compatible with all Sika Concrete admixtures and additives.
<b>Dispensing</b>	SikaFiber® PPM 48/19 can be added to the mixer before, during or after the addition of the other concrete materials. Mixing time of at least 5 minutes is required to ensure uniform distribution of the fibres throughout the concrete. SikaFiber® PPM 48/19 is uniquely designed and packaged allowing it to be evenly dispersed through the matrix, insuring no balling or pumping problems will occur Entire package can be thrown into the mix allowing for easy handling whilst leaving no waste on site. Can be added to the mix at any stage during batching.

## 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.

## FURTHER INFORMATION

Technical information

<b>Fibre type</b>	<b>Macro fibre</b>	<b>Micro fibre</b>
Material	100% Polyolefin polymer	Vergin Polypropylene
Melt point	170° C	150°-170° C
Specific Gravity	0.92 g/cm <sup>3</sup>	0.91 g/cm <sup>3</sup>
Tensile strength	550+ MPa	450 MPa
Alkali resistance	Excellent	Excellent
Fiber Type	Embossed	Mono filament
Electrical conductivity	Low	Low
Moisture content	0 %	0%
Fiber length	48 mm	19 mm
Mean thickness	0.5 mm	N/A
Mean width	1.4 mm	N/A
Absorption	Nil	Nil
Fibres per kg	32000±3%	N/A

SikaFiber® PPM 48/19 reinforced concrete can be finished by any finishing technique.

## IMPORTANT CONSIDERATIONS

The addition of SikaFiber® PPM 48/19 can cause a reduction in the concrete consistence. We recommend correcting this loss not by adding more water, but by adjusting the mix to the required consistence with a suitable dosage of Sika® high range water reducer.

## 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.

## 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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**Product Data Sheet**

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