

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

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.

PRODUCT INFORMATION

Packaging	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.
Shelf Life	N/A
Storage Conditions	Store protected from the weather.

TECHNICAL INFORMATION

Specific Advice	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.
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Recommended Dosage	The typical dose rate for SikaFiber® PPM 48/19 is 2.3 kg per m ³ . Higher dose rates up to 8.5 kg per m ³ can be used as the performance requirements dictate.
Compatibility	SikaFiber® PPM 48/19 is compatible with all Sika Concrete admixtures and additives.
Dispensing	<p>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.</p> <p>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</p> <p>Entire package can be thrown into the mix allowing for easy handling whilst leaving no waste on site.</p> <p>Can be added to the mix at any stage during batching.</p>

FURTHER DOCUMENTS

Technical information

Fibre type	Macro fibre	Micro fibre
Material	100% Polyolefin polymer	Virgin Polypropylene
Melt point	170° C	150°-170° C
Specific Gravity	0.92 g/cm ³	0.91 g/cm ³
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	0.3325 mm	N/A
Mean width	1.2855 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.

LIMITATIONS

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.

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.

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.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related 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. 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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