

# PRODUCT DATA SHEET

## Sika® Fibre

### POLYPROPYLENE FIBRES FOR CONCRETE

#### DESCRIPTION

SikaFibre is high quality micro monofilament polypropylene fibres. It is designed to minimize and control plastic shrinkage cracks in concrete. SikaFibre is available in pre-measured, ready to use degradable bags for 1 m<sup>3</sup> of concrete.

#### USES

SikaFibre reinforces fresh concrete and reduce the incidence of shrinkage cracking in pre-hardening stage.

SikaFibre is used in:

- Slabs
- Pavements

- Precast concrete products
- Heavy-duty industrial floors
- Overlays
- Shotcrete
- Mortar screeds and plasters

*Note : Polypropylene fibres are not intended to replace reinforcement*

#### CHARACTERISTICS / ADVANTAGES

Thanks to their fineness and special-surface treatment, SikaFibre is uniformly distributed to provide internal reinforcement to:

- Reduce plastic shrinkage cracking
- Improve fresh concrete cohesion
- Improve impact and abrasion resistance
- Improve concrete durability

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Polypropylene fibres with surface agent
<b>Packaging</b>	0.6 kg/bag at 40 bags per box
<b>Appearance / Colour</b>	Natural
<b>Shelf Life</b>	3 years if stored in original unopened packaging
<b>Storage Conditions</b>	Store in cool, dry condition
<b>Fiber Length</b>	12 mm
<b>Fiber Diameter</b>	18 micron – nominal
<b>Water Absorption</b>	Nil
<b>Density</b>	0.91 gr/ cm <sup>3</sup>

#### TECHNICAL INFORMATION

<b>Tensile Adhesion Strength</b>	300 – 440 MPa
<b>Elastic Modulus</b>	6 000 – 9 000 N/mm <sup>2</sup>
<b>Softening Point</b>	160 °C
<b>Concreting Guidance</b>	SikaFibre is compatible with all Sika admixtures. The standard procedures for placing, finishing and curing concrete shall be followed. In addition, proper reinforcement and joint spacing should be observed.

## APPLICATION INSTRUCTIONS

### DISPENSING

Put 1 (one) bag of 0.6 kg SikaFibre per m<sup>3</sup> concrete directly into the mixture. A mixing time of 3 to 5 minutes is necessary to ensure that the bag is fully degraded and ensure uniform fibre dispersion throughout the mix.

### 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 declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

### 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.

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