

PRODUCT DATA SHEET

SikaFiber®

Monofilament polypropylene fibre

DESCRIPTION

SikaFiber® is a monofilament polypropylene fibre for use in concrete to reduce the incidence of plastic shrinkage cracking. SikaFiber® increases the strain capacity of the fresh concrete therefore reducing plastic cracking.

USES

SikaFiber® is ideal for use in concrete used to produce:

- Floor slabs
- Driveways
- Tilt slabs
- Floor toppings
- Precast units
- Coloured concrete

SikaFiber® can be used in both dry and wet shotcrete applications such as:

- Pools
- Channels

- Retaining walls
- Building restoration

CHARACTERISTICS / ADVANTAGES

SikaFiber® provides the following benefits:

- Less plastic shrinkage cracking
- Increased resistance to impacts and shattering
- Increased abrasion resistance
- Non staining

When used in shotcrete the benefits are:

- Reduced rebound waste
- Thicker layer builds
- Reduced sag
- Increased fatigue resistance
- Alkali and dust proof
- Non staining

APPROVALS / CERTIFICATES

SikaFiber® complies to EN 14889-2 Class 1a and ASTM C1116 Type III .

PRODUCT INFORMATION

Composition	100% Virgin Monofilament Polypropylene Fibres
Packaging	600 gram bags (30 bags per box)
Appearance and colour	Virgin Copolymer/polypropylene - White
Shelf life	Product can be stored for indefinite period in a dry environment.
Storage conditions	Product can be stored for indefinite period in a dry environment.
Density	0.91 kg/l
Dimensions	Length 18 mm Nominal diameter 35±5 µm
Melting point	160°C
Ignition temperature	Above 350°C

TECHNICAL INFORMATION

Water absorption	Nil
Specific advice	Thermal Conductivity: Low Electrical Conductivity: Low
Tensile strength	450 MPa minimum
Tensile strain at break	63%
Resistance to alkalinity	High

APPLICATION INFORMATION

Recommended dosage	SikaFiber® shall be added at minimum dose rate of 0.6kg (1 bag) per cubic metre of concrete.
Dispensing	Place the bag directly into the ready mixed truck or central mixer. Mix for a minimum of three (3) minutes or when fibres are evenly distributed through concrete.

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.

IMPORTANT CONSIDERATIONS

- The addition of SikaFiber® to a concrete mix is no substitute for proper curing practices.
- SikaFiber® is not a structural fibre and therefore should not be used as a substitute for structural steel or steel fibres in structural applications.
- Concrete fibres in general can exhibit lower slumps and the use of a water reducers such as Plastiment®, SikaPlast® or ViscoCrete® is recommended.

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

Sika Australia Pty Limited

ABN 12 001 342 329

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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