

# PRODUCT DATA SHEET

## SikaFiber®-249

Structural macrosynthetic polypropylene fibre for reinforcing cast-in-situ concrete

### DESCRIPTION

SikaFiber®-249 is specifically engineered for use as shrinkage and temperature (secondary) reinforcement, particularly suitable for replacing welded-wire reinforcement and conventional steel bars in alkaline environments, where a high chemical resistance is required, in corrosive or aggressive environment. Further reinforcing concrete by providing uniform distribution throughout the concrete matrix, excellent post crack performance and tight crack control.

### USES

SikaFiber®-249 can be used in:

- Concrete pavement
- Industrial and warehouse flooring
- Precast elements
- Composite metal decks

### FEATURES

The fibres are designed to be introduced at any time before or during mixing of concrete produced in accordance with procedures specified in ASTM C94 / C94M.

SikaFiber®-249 can be used in combination with all the admixtures of Sika, particularly with Sikacontrol SRA 872SA in flooring applications to protect concrete against drying shrinkage cracks.

### CERTIFICATES AND TEST REPORTS

SikaFiber®-249 fibre is extruded from a natural polypropylene homo-polymer in compliance with ASTM C1116 / C1116M "Standard Specification for Fiber-Reinforced Concrete" and EN 14889-2 "Fibres for concrete – Part 2: Polymer Fibres- Definitions, specifications and conformity."

### PRODUCT INFORMATION

<b>Fibre type</b>	Polyolefin 100%
<b>Packaging</b>	2.5 to 8 kg plastic bags.
<b>Colour</b>	colourless
<b>Shelf life</b>	24 months if stored as directed.
<b>Storage conditions</b>	SikaFiber 249 should be stored at temperatures below 60°C. Avoid storing near strong oxidizers and avoid sources of ignition.
<b>Length</b>	48 mm
<b>Melting point</b>	160°C
<b>Ignition temperature</b>	350°C
<b>Specific gravity</b>	0.91 g/cm <sup>3</sup>
<b>Tensile strength</b>	400 MPa

Resistance to alkalinity	Excellent
Chemical resistance	Excellent
Water absorption	Nil

## APPLICATION INFORMATION

Recommended dosage	The recommended dosage range for SikaFiber 249 is 1.5 to 8 kg/m <sup>3</sup> . SikaFiber 249, when used at an appropriate dosage, is an option for the replacement of welded-wire reinforcement or conventional steel bars, as a safe and easy-to-use alternative reinforcing system that is rust proof and alkali resistant.
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## 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.

## LIMITATIONS OF USE

It is recommended to test all fibres prior to use.

- Do not use a fibre dosage outside of the recommended dosage range unless specifically advised by our Technical Department

For more information, please consult the Safety Data Sheet of this Product.

## ECOLOGY, HEALTH AND SAFETY

SikaFiber 249 is extremely stable, presenting little to no hazard to health, however, in fire conditions; carbon monoxide, carbon dioxide, other gases and fumes may be evolved.

The usual precautions and measures should be taken for handling any chemical substance. Use caution when stacking to avoid unstable conditions. Use protective gloves and glasses.

Wash hands before a break and on finishing work. Do not eat, drink or smoke during application.

The disposal of the product and its packaging is the responsibility of the end user and should be carried out according to current legislation.

## 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.

## 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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