

## PRODUCT DATA SHEET

## SikaFiber® Force PP 48

POLYOLEFIN MACRO-SYNTHETIC FIBERS DESIGNED TO ENHANCE  
THE DISTRIBUTION AND PERFORMANCE OF FIBER REINFORCEMENT

**DESCRIPTION**

SikaFiber® Force PP 48 is a macro structural synthetic fiber that delivers optimum performance in highly corrosive environments. It is suited in pre-cast, slabs on ground among many other applications. Higher  $R_{e3}$  values are achieved in slabs on grade when using this fiber.

**USES**

- Fibercrete/shotcrete
- Ground supported slabs
- External pavements
- Roads
- Precast
- Sea defence
- Overlays & toppings
- Airport & pavements
- Sprayed concrete
- Slope stabilisation

**CHARACTERISTICS / ADVANTAGES**

- Non-magnetic
- Rustproof
- Alkali proof
- Requires no minimum amount of concrete cover
- Is always positioned in compliance with codes
- Safe and easier to use than traditional reinforcement
- Saves time and hassle
- No waste to dispose of

**APPROVAL / STANDARDS**

- Compliance with European Standard EN 14889-2: 2006 Fibers for Concrete Part 2: Class II and carries CE marking
- ISO 9001:2008 Quality Assured
- Complies with ASTM C 1116 Type III 4.1.3

**PRODUCT INFORMATION**

<b>Chemical Base</b>	Polyolefin Polymer
<b>Packaging</b>	5 Kg boxes - fibers wrapped in water soluble plastic pucks (Parallel Packed) in biodegradable boxes.
<b>Appearance / Colour</b>	Embossed / Natural
<b>Density</b>	~0.92

## TECHNICAL INFORMATION

Strength	550 + Mpa *
Fiber Length	48 mm
Width Mean	1.37 mm*
Melt Point	170 °C
Thickness Mean	0.34 mm*
Energy Absorption Rate	450+ Joules*
Electrical Conductivity	Low
Moisture Content	0.0 %
Alkali Resistance	Excellent

## SYSTEM INFORMATION

<b>System Structure</b>	<p>Environmentally friendly recycled packaging. Entire package can be thrown into the mix allowing for easy handling Whilst leaving no waste on site. Store protected from the weather. SikaFiber® Force PP 48 is uniquely designed and packaged allowing it to be evenly dispersed through the matrix, insuring no balling or pumping problems will occur. Can be added to the mix at any stage during batching. Allow 3 to 5 minutes at mixing speed for fibers to disperse evenly throughout matrix.</p>
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## APPLICATION INFORMATION

<b>Consumption</b>	2-10 kg/m <sup>3</sup>
<b>Compatibility</b>	SikaFiber® Force PP 48 macro-synthetic fibers are compatible with all concrete admixtures and performance enhancing chemicals

## APPLICATION INSTRUCTIONS

### DISPENSING

Fibers for concrete shall be SikaFiber® Force PP 48 polyolefin high performance macrosynthetic fiber conforming to EN 14889-2: 2006 Class II and manufactured specifically for the reinforcement of concrete. SikaFiber® Force PP 48 macrosynthetic fibers shall be mixed at the batch plant, at the recommended rate of 5-9kg per cubic metre, and mixed for sufficient time (minimum 5 minutes) to ensure uniform distribution of the fibers throughout the concrete mix

### LIMITATION

The addition of SikaFiber® Force PP 48 can cause a reduction in the concrete consistence. We recommended correcting this loss not by adding more water, but by adjusting the mix to the required consistence with a suitable dosage and grade of Sika® high-range water reducing admixture.

## 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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September 2017