

## PRODUCT DATA SHEET

# SikaFiber®-100 Recycled PP48 Impact

Australian made recycled polypropylene macro fibers

### DESCRIPTION

SikaFiber®-100 Recycled PP48 Impact is a 100% recycled polypropylene macro structural fiber that delivers optimum performance in highly corrosive environments. It is suited in pre-cast, slabs on ground among many other applications. This product achieves high Fr values (residual flexural strength based on EN 14651 testing) and enhanced toughness values (based on ASTM 1550) in slabs on grade and shotcrete applications.

### USES

- Shotcrete
- Ground supported slabs
- Precast elements
- Industrial flooring
- Sea defense
- Airport & pavements
- Slope stabilization

### FEATURES

- Increases concrete toughness, impact resistance, and ductility

- Decreases the tendency to cracking in both fresh and hardened state of the concrete
- Reduces mechanical wear on pumps and pipelines
- High resistance to chemical attacks and alkalis
- It is safer and easier to use than traditional reinforcement
- Does not corrode in aggressive waters
- Saves time and processes during the application and construction process of the concrete element
- Australian made

### SUSTAINABILITY

#### Sustainably Impactful

SikaFiber®-100 Recycled PP48 Impact is an innovative plastic macro structural fiber produced in Australia using post-industrial recycled materials, offering our customers a sustainable solution that supports reducing our carbon footprint.

For more information, see Sustainability Fact Sheet.

### CERTIFICATES AND TEST REPORTS

SikaFiber®-100 Recycled PP48 Impact conforms to EN 14889-2: 2006, and to ASTM 1116 Type III

### PRODUCT INFORMATION

Composition	Recycled polypropylene
Packaging	Environment-friendly recycled and biodegradable 5 kg carton boxes- fibers wrapped in water soluble plastic pucks (Parallel Packed). Entire package can be thrown into the mix allowing for easy handling whilst leaving no waste on site. 200 boxes per pallet.
Colour	Grey
Shelf life	NA
Storage conditions	Store protected from the weather

<b>Length</b>	▪ Average Length: 48 mm
<b>Width</b>	▪ Mean Width: 1.35 mm
<b>Thickness</b>	▪ Mean Thickness: 0.45 mm

## TECHNICAL INFORMATION

<b>Tensile strength</b>	> 450 MPa
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## APPLICATION INFORMATION

<b>Recommended dosage</b>	4-8 kg/m <sup>3</sup>
<b>Compatibility</b>	SikaFiber®-100 Recycled PP48 Impact is compatible with all concrete admixtures and performance enhancing chemicals.

## 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.

## SPECIFICATION INFORMATION

Fibres for concrete shall be SikaFiber®-100 Recycled PP48 Impact, 100% recycled polypropylene high-performance macro fibre conforming to EN 14889-2: 2006 Class II and manufactured specifically for the reinforcement of concrete. SikaFiber®-100 Recycled PP48 Impact macro-synthetic fibres shall be mixed at the batch plant, at the recommended rate of 4-8 kg per cubic metre, and mixed for sufficient time (minimum 5 minutes) to ensure even distribution of the fibres throughout the concrete mix.

## IMPORTANT CONSIDERATIONS

The addition of SikaFiber®-100 Recycled PP48 Impact might cause a reduction in the concrete workability. We recommend correcting this loss not by adding more water, but by adjusting the mix to the required consistency with a suitable dosage of a Sika® ViscoCrete® or SikaPlast® admixture.

## 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).

### DISPENSING

SikaFiber®-100 Recycled PP48 Impact is uniquely designed and packaged for even dispersion through the matrix, preventing balling and pumping issues. It can be added at any stage of batching. Mix for 5 minutes at mixing speed to ensure full fiber dispersion.

## 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.

**Sika Australia Pty Limited**

ABN 12 001 342 329

aus.sika.com

Tel: 1300 22 33 48

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