

# BUILDING PRODUCT INFORMATION SHEET

## SikaFiber®-1218 PPM

### Polypropylene microfibres for concrete and mortars

#### DESCRIPTION

SikaFiber®-1218 PPM are 12 mm long mono-filament polypropylene fibres for use in concrete and mortars.

#### USES

For most types of non-structural cementitious mortars and concrete with need to reduce the incidence of shrinkage cracking:

- Ground bearing slabs
- Screeds and overlays
- Renders and plasters
- Precast concrete elements
- Sprayed applications
- Extruded concrete
- Interior and exterior applications

#### FEATURES

- Safe and easy to use
- Improves durability
- Reduces tendency for plastic and drying shrinkage cracking
- Reduces plastic settlement
- Reduces permeability
- Reduces slab curling
- Increases impact resistance
- Reduces spalling at high temperatures

#### APPROVALS / CERTIFICATES

CE Marking and Declaration of Performance to EN 14889-2 – Polymer Fibres for use in concrete mortar and grout

#### PRODUCT INFORMATION

<b>Product identifier</b>	SikaFiber®-1218 PPM	
<b>Place of manufacture</b>	Overseas	
<b>Product declaration</b>	EN 14889-2: Class Ia: Mono-filamented	
<b>Composition</b>	100 % polypropylene	
<b>Packaging</b>	600 g soluble bags (box with 28 bags). Refer to current price list for packaging variations.	
<b>Shelf life</b>	24 months from date of production	
<b>Storage conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to packaging.	
<b>Appearance and colour</b>	Natural (white in appearance)	
<b>Dimensions</b>	Diameter	18 µm
	Length	12 mm
<b>Density</b>	~0,91 g/cm <sup>3</sup>	
<b>Melting point</b>	~160 °C	

## TECHNICAL INFORMATION

**Specific tensile strength** ~30 cN/tex

## APPLICATION INFORMATION

**Recommended dosage** ~600 g per 1m<sup>3</sup> concrete. To reduce spalling at high temperatures contact Sika Technical Services for additional information

## MANUFACTURER AND IMPORTER INFORMATION

<b>Manufacturer information</b>	Address	Sika Supply Centre AG Industriestrasse 26 6060, Sarnen Switzerland
<b>Importer information</b>	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	<a href="https://nzl.sika.com/">https://nzl.sika.com/</a>
	Email address	<a href="mailto:info@nz.sika.com">info@nz.sika.com</a>
	NZBN	9429000018791

## BUILDING CODE INFORMATION

**Building Code clauses** Note: This product on its own is not within the scope of the NZ Building Code. It is an additive / admixture for use in the manufacture of concrete, to enhance its performance properties in either its plastic or hardened state. When added to concrete that must comply with the NZ Building Code, and it used in accordance with Sika's technical literature, it will contribute to meeting the requirements of the following clauses:

B1 Structure: Performance Clauses B1.3.1, B1.3.2, B1.3.3 (a, b, f, h, m, q) B1.3.4

B2 Durability: Performance clause B2.3.1-(a) not less than 50 years

F2 Hazardous Building Materials: Performance clause F2.3.1

**Building Code compliance statements** Performance B1.3.1, B1.3.2, B1.3.3 (a, b, f, h, m, q), B1.3.4: This product meets the requirements of AS1478.1 Chemical Admixtures for Concrete, Mortar and Grout. When added to concrete during the production phase it contributes to the hardened concrete meeting loading requirements arising from self-weight, imposed gravity loads, earthquake, wind impact, and the effects of creep and shrinkage over time.

Performance B2.3.1 (a) 50 years: This product meets the requirements of AS1478.1 Chemical Admixtures for Concrete, Mortar and Grout. When added to concrete, mortar or grout during the manufacturing process it helps the hardened concrete to achieve its durability requirements and to remain serviceable for 50 years, or more. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 2019.

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet [nzl.sika.com](http://nzl.sika.com) for further information if required

## BASIS OF PRODUCT DATA

All technical data in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

- For best results use a good quality concrete / mortar.
- Fibres will not improve the quality of poor concrete or mortar.

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- SikaFiber®-1218 PPM is compatible with other Sika admixtures.
- Do not use to replace structural steel reinforcement.

## 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 this 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).

## APPLICATION INSTRUCTIONS

### DESIGN REQUIREMENTS

Design requirements for concrete that contains Sika admixtures, or other concrete additives are the responsibility of the ready mixed concrete producer and/or the concrete design engineer.

### DISPENSING

Add the fibres with the dry aggregates taking care to evenly distribute throughout the mix. The fibres can be added when all the mix components have been added although mixing time may need to be extended to ensure a uniform fibre distribution. Do not add the fibres directly into the mixing water.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## 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.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

### Sika (NZ) Limited

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