

## PRODUCT DATA SHEET

# Sika® Confibre® 51F

### Fibrillated Polypropylene Fibre

#### DESCRIPTION

Sika® Confibre® 51F is a fibrillated polypropylene fibre for use in concrete to reduce the incidence of plastic shrinkage cracking. Sika® Confibre® 51F increases the strain capacity of the fresh concrete therefore reducing plastic cracking.

#### USES

Sika® Confibre® 51F is used in concrete to increase the strain capacity of the fresh concrete thereby reducing the incidence of plastic shrinkage cracking. Sika® Confibre® 51F is typically used for the following applications:

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

It can be used in both dry and wet shotcrete applications for:

- Pools
- Channels
- Retaining walls
- Building restoration

#### CHARACTERISTICS / ADVANTAGES

Sika® Confibre® 51F provides the following benefits:

- Increased resistance to plastic shrinkage cracking
- Increased impact resistance
- Increased cohesion
- Non staining

#### APPROVALS / CERTIFICATES

Complies with ASTM C1116/ C1116M, Type III fiber reinforced concrete and therefore ASTM D7508.

Complies with European Standard EN 14889-2:2006 Fibres for Concrete Part 2, Class 1b .

#### PRODUCT INFORMATION

<b>Composition</b>	100% Virgin Fibrillated Polypropylene Fibres
<b>Packaging</b>	900 gram bags (10 bags per box)
<b>Shelf life</b>	Product can be stored for indefinite period in a dry environment.
<b>Storage conditions</b>	Store in dry conditions.
<b>Density</b>	0.91 kg/l
<b>Dimensions</b>	Length ~51 mm Diameter 55 µm nominal
<b>Melting point</b>	Softening at 160°C
<b>Ignition temperature</b>	593° C
<b>Water absorption</b>	Nil
<b>Tensile strength</b>	~310 MPa

<b>Resistance to alkalinity</b>	High
<b>Recommended dosage</b>	The recommended minimum dose rate of Sika Confibre 51F is 0.9kg (1 bag) per cubic metre of concrete. Optimum dosage depends on the type of concrete, site conditions, mix proportions and desired plastic and hardened concrete properties. Laboratory and/or field trials are essential in determining the optimum dosage.
<b>Dispensing</b>	Place the bag directly into the ready mixed truck or central mixer. Mix for a minimum of three (3) minutes or until 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.

## FURTHER INFORMATION

Low thermal and electrical conductivity

## 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

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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June 2021, Version 01.04

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SikaConfibre51F-en-AU-(06-2021)-1-4.pdf