

## PRODUCT DATA SHEET

# SikaFiber®-6 FF

### POLYPROPYLENE FIBRES FOR CONCRETE

#### PRODUCT DESCRIPTION

SikaFiber®-6 FF is a polypropylene fibrillated fibre which reduces the occurrence of plastic shrinkage cracking and plastic settlement whilst enhancing the surface properties and the durability of the hardened cementitious product. The fibres are coated with surfactant to improve dispersion. SikaFiber®-6 FF is extremely fine and although slightly visible at the plastic stage, they are not readily seen on the hardened surface of the cementitious product.

#### USES

- Internal Floor Slabs
- Concrete Buildings
- Repair Materials
- External Hard Standings
- Pattern Imprinted Concrete
- Bridges
- Precast Concrete
- Extruded Concrete
- Agricultural Areas
- Piling Concrete
- Shotcrete / Guniting
- Water Retaining Structures

#### PRODUCT INFORMATION

<b>Chemical Base</b>	100% Virgin Polypropylene
<b>Packaging</b>	The fibres are packed in 0.9Kg degradable paper bags. These bags should be added to the truck or plant mixer unopened. Bagged fibres are placed in boxes for ease of handling.
<b>Appearance / Colour</b>	Natural
<b>Shelf Life</b>	24 months from date of production
<b>Storage Conditions</b>	Boxes of fibres must be stored on a clean surface, in dry conditions, under cover and away from the possibility of damage.
<b>Density</b>	910 kg/m <sup>3</sup>

#### CHARACTERISTICS / ADVANTAGES

- Reduced Plastic Shrinkage Cracks
- Reduced Plastic Settlement
- Reduced Bleeding
- Alternative to Crack Control Mesh with appropriate design
- Reduced Water and Chemical Permeability
- Increased Abrasion Resistance
- Increased Impact Resistance
- Improved Freeze/Thaw Resistance

#### APPROVALS / STANDARDS

Standard EN 14889-2:2006  
and issued Certificate No; 533591

<b>Dimensions</b>	Fibre Length: Blended
<b>Melting Point</b>	162°C (324°F)
<b>Ignition Temperature</b>	593°C (1100°F)

## TECHNICAL INFORMATION

<b>Specific Advice</b>	<b>Surface</b>	Coated for dispersion
	<b>Design</b>	Fine / Monofilament Fibre
	<b>Thermal Conductivity</b>	Low
	<b>Electrical Conductivity</b>	Low
	<b>Acid Resistance</b>	High
	<b>Alkali Resistance</b>	100%
<b>Resistance to Alkalinity</b>	100%	

## APPLICATION INSTRUCTIONS

### Mixing

The fibres should ideally be added in the mixer at the batching plant: although in some instances this may not be possible and adding the fibres on site will be the only option. If mixing at a dry batch plant, fibres should be the first constituent in the truck along with one third of the mixing water. After all the other ingredients have been added, including the remaining mixing water, the concrete should be mixed for a minimum of 70 revolutions at full speed to ensure uniform fibre dispersion.

### Notes on Application / Limitations

- When using SikaFiber®-6 FF a suitable mix design has to be taken into account and local material sources shall be trialled.
- Support from our Technical Service Department is recommended.
- SikaFiber®-6 FF should not be used to replace structural, load bearing reinforcement.
- SikaFiber®-6 FF should not be used as a means of using thinner concrete sections than original design.
- Do not increase mixing water when using fibres.

## VALUE BASE

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

## 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.

## ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

## 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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