

# Sika<sup>®</sup> Fibre

## Construction

<b>Description</b>	Sika <sup>®</sup> Fibre is a monofilament polypropylene fibre for use in concrete to reduce the incidence of plastic shrinkage cracking. Sika <sup>®</sup> Fibre increases the strain capacity of the fresh concrete therefore reducing plastic cracking.
<b>Uses</b>	<p>Sika<sup>®</sup> Fibre is ideal for use in concrete used to produce:</p> <ul style="list-style-type: none"> <li>• Floor slabs</li> <li>• Driveways</li> <li>• Tilt slabs</li> <li>• Floor toppings</li> <li>• Precast units</li> <li>• Coloured concrete</li> </ul> <p>Sika<sup>®</sup> Fibre can be used in both dry and wet shotcrete applications such as:</p> <ul style="list-style-type: none"> <li>• Pools</li> <li>• Channels</li> <li>• Retaining walls</li> <li>• Building restoration</li> </ul>
<b>Advantages</b>	<p>Sika<sup>®</sup> Fibre provides the following benefits:</p> <ul style="list-style-type: none"> <li>• Less plastic shrinkage cracking</li> <li>• Increased resistance to impacts and shattering</li> <li>• Increased abrasion resistance</li> <li>• Non staining</li> </ul> <p>When used in shotcrete the benefits are:</p> <ul style="list-style-type: none"> <li>• Reduced rebound waste</li> <li>• Thicker layer builds</li> <li>• Reduced sag</li> <li>• Increased fatigue resistance</li> <li>• Alkali and dust proof</li> <li>• Non staining</li> </ul>
<b>Storage and Shelf Life</b>	Product can be stored for indefinite period in a dry environment.
<b>Application</b>	
<b>Dosage</b>	Sika <sup>®</sup> Fibre shall be added at minimum dose rate of 0.6kg (1 bag) per cubic metre of concrete.
<b>Mixing</b>	Place the bag directly into the ready mixed truck or central mixer. Mix for a minimum of three (3) minutes or when fibres are evenly distributed through concrete.

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**Technical Data (Typical)**


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<b>Material Type</b>	100% Virgin Monofilament Polypropylene Fibres
<b>Length of Fibre</b>	18 mm
<b>Diameter</b>	22 µm - Nominal
<b>Tenacity CN/Tex</b>	28.0 minimum
<b>Elongation at Break</b>	63%
<b>Sotening (melt) Point</b>	160°C
<b>Ignition Temperature</b>	Above 350°C
<b>Density</b>	0.91 grams/ml
<b>Absorption</b>	Nil
<b>Thermal Conductivity</b>	Low
<b>Electrical Conductivity</b>	Low
<b>Acid and Salt Resistance</b>	High
<b>Youngs Modulus</b>	3.5k N/mm <sup>2</sup>
<b>Packaging</b>	600 gram bags (10 bags per box)

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**Important Notes**

- The addition of Sika® Fibre to a concrete mix is no substitute for proper curing practices.
- Sika® Fibre is not a structural fibre and therefore should not be used as a substitute for structural steel or steel fibres in structural applications.
- Concrete fibres in general can exhibit lower slumps and the use of a super plasticiser such as Sikament® or ViscoCrete® is recommended.

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**Handling Precautions**

- Avoid contact with skin and eyes.
- Wear protective gloves and eye protection during work.
- If skin contact occurs, wash skin thoroughly.
- If in eyes, hold eyes open, flood with warm water and seek medical attention without delay.
- A full Material Safety Data Sheet is available from Sika on request.

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**Important Notification**

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

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