SikaFiber® Force PP 65
Polyolefin macro-synthetic fibres for reinforced shotcrete and concrete

Product Description
SikaFiber® Force PP 65 is a macro structural synthetic polypropylene fibre. These fibres show very defined ductile behavior characteristics with excellent performance levels in shotcrete.

Uses
- Fibrecrete/shotcrete
- Ground supported slabs
- Precast
- Sea defence
- Airport & pavements
- Slope stabilisation

Advantages
- Non-magnetic, rustproof and alkali proof
- Less balling effect for difficult mixes
- No site waste or disposal issues.
- Saves time and storage space in comparison to traditional mesh
- Uniquely designed and packaged allowing it to be evenly dispersed ensuring no balling or pumping problems will occur.

Product Information
- Entire package can be thrown into the mix allowing for easy handling whilst leaving no waste on site.
- Allow 3 to 5 minutes at mixing speed for fibers to disperse evenly throughout matrix.
- Can be added to the mix at any stage during batching.
- Store protected from the weather.
- SikaFiber® Force PP 65 is uniquely designed and packaged allowing it to be evenly dispersed through the matrix, insuring no balling or pumping problems will occur.
- Environmentally friendly recycled packaging.

Performance
RDP Test Results From Panels Sprayed Underground
Diameter of panel 795mm: Thickness of panel 76mm. Standard deviation of thickness 1.3mm. Radial cracks 3. Dose rate: 8Kg

<table>
<thead>
<tr>
<th>Energy Absorption at the following central deflection</th>
<th>Direct Absorption</th>
<th>Corrected Absorption</th>
</tr>
</thead>
<tbody>
<tr>
<td>5mm (Joules) =</td>
<td>89</td>
<td>88</td>
</tr>
<tr>
<td>10mm (Joules)=</td>
<td>191</td>
<td>188</td>
</tr>
<tr>
<td>20mm (Joules)=</td>
<td>377</td>
<td>373</td>
</tr>
<tr>
<td>40mm (Joules)=</td>
<td>598</td>
<td>593</td>
</tr>
</tbody>
</table>

Compatibility
SikaFiber® Force PP 65 macro-synthetic fibres are compatible with all concrete admixtures and performance enhancing chemicals.

Safety
No special handling is required with SikaFiber® Force PP 65 macro-synthetic fibres. Full Material Safety Data Sheets are available on request.
Packaging

5 Kg boxes- fibres wrapped in water soluble plastic pucks (Parallel Packed) in biodegradable boxes.

Specification Clause

Fibres for concrete shall be SikaFiber® Force PP 65 polyolefin high performance macro-synthetic fibre conforming to EN 14889-2: 2006 Class II and manufactured specifically for the reinforcement of concrete. SikaFiber® Force PP 65 macro-synthetic fibres shall be mixed at the batch plant, at the recommended rate of 5-9kg per cubic metre, and mixed for sufficient time (minimum 5 minutes) to ensure uniform distribution of the fibres throughout the concrete mix.

Technical Information

Material | Polyolefin Polymer
---|---
Melt Point | 170°C
Specific Gravity | 0.92
Fiber Length | 65mm
Width Mean | 1.37 mm *
Thickness Mean | 0.34 mm *
Strength | 550 + MPa *
Alkali Resistance | Excellent
Fibre Type | Embossed
Packaging | 5kg boxes
Energy Absorption Rate | 500+ Joules *
Colour | Natural
Electrical Conductivity | Low
Moisture Content | 0.0%
Standard Dosage | 5-10 kg/m³

Important information

The addition of SikaFiber® Force PP 65 can cause a reduction in the concrete consistence. We recommended correcting this loss not by adding more water, but by adjusting the mix to the required consistence with a suitable dosage and grade of Sika® high-range water reducing admixture.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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 Product Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.