

Product Data Sheet
Edition 03/10/2011
Identification no:
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Sika® Fibres

Sika® Fibres F-Macro X 65/0.8

Structural Synthetic Polypropylene Macro Fibres

Product Description	Sika® Fibres are structural synthetic fibres with an "X" shaped cross sectional surface area – 65 mm in length x 0.8 mm in diameter for use in concrete as reinforcement.
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Uses	Applicable as structural reinforcement in concrete for: <ul style="list-style-type: none">■ Industrial Floors/ Ground Slabs and Overlays■ Roads/ Pavements and Sidewalks■ Dams/ Ports and Marine Structures■ Precast Elements
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Characteristics / Advantages	<ul style="list-style-type: none">■ X Profile provide maximum surface area for bonding in concrete■ Cost effective solution to welded mesh■ Increase load bearing and energy absorption capacity of concrete■ High impact and abrasion resistance increasing concrete durability■ Increase flexural strength■ Homogeneous reinforcement■ Corrosion resistant■ Safe and easy to use
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Product Data

Form

Appearance / Colour	Translucent or Grey fibres
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Packaging	Water soluble pucks in 5 kg boxes
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Storage

Storage Conditions / Shelf-Life	Store in a dry, covered place, protected from moisture and UV radiation.
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Technical Data

Chemical Base	100% virgin homopolymer polypropylene
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Density	0.91 g/cm ³
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Length	65 mm
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Diameter	0.8 mm
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Melting Point	160 - 170° C
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Tensile Strength	300 – 400 N/mm ²
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Application Information

Consumption	As per Engineer's specification
Mixing	<p>Add Sika® Fibres directly into the mixing system during or after the batching of the ingredients, before mixing at high speed.</p> <p>The mixing time will be slightly increased with the addition of Sika® Fibres. Mix thoroughly for at least 5 minutes at high revolutions.</p> <p>NEVER add fibres directly into the mixing water.</p>
Notes on Application / Limits	<ul style="list-style-type: none"> ■ To achieve good results a good concrete quality is required. Fibres cannot improve quality of a poor concrete. ■ Sika® Fibres can be used in addition to other Sika admixtures ■ Can be used to replace structural, load bearing reinforcement ■ Sika® Fibres should not be used as a means of using thinner concrete sections than original design without Engineer's approval. ■ Do not increase mixing water when using fibres.
Value Base	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.
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
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.
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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