

Sika® Fibres

Fibsol Polypropylene Micro Fibres for mortar and concrete

Product Description

Sika® Fibres are monofilament polypropylene fibres of 12mm length for use in mortars and concrete.

Uses

Applicable to all types of mortars and concrete which demonstrate a need for resistance to crack tendencies. For non-supporting construction uses. For example:

- Facade render
- Concrete slabs and overlays
- Roads, Pavements and Sidewalks
- Precast Products

Characteristics / Advantages

- Reduces tendency for plastic and drying shrinkage cracking
- Save and easy to use
- Improves abrasion resistance
- Reduces water migration and permeability
- Improved durability
- Explosive spalling resistance
- Increased impact resistance of young concrete

Product Data

Form

Appearance / Colour White fibres

Packaging 600 or 900 g water soluble bag

Storage

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

Technical Data

Chemical Base 100% virgin homopolymer polypropylene

Density 0.91 g/cm³

Diameter 34 micron

Length 12 mm

Melting Point 160 - 170° C

Tensile Strength 300 N/mm²



Application Information

Consumption	Approximately 600 g/m ³ -1500g/m ³ or approximately 0.2% by volume
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.</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 / mortar quality is required. Fibres cannot improve quality of a poor concrete or mortar. ■ Sika® Fibres can be used in addition to other Sika admixtures ■ Should not 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 ■ 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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