

SikaFiber® PPM-12

Polypropylene Fibers for mortar and concrete

Product Description	SikaFiber® PPM-12 are monofilament polypropylene fibers of 12 mm 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: <ul style="list-style-type: none">■ Facade render■ Concrete slabs and overlays■ Sidewalks■ Etc.
Characteristics / Advantages	<ul style="list-style-type: none">■ Reduces tendency for plastic and drying shrinkage cracking■ Save and easy to use■ Improves abrasion resistance■ Reduces water migration■ Improved durability■ Reduction of spalling■ Increased impact resistance of young concrete

Product Data

Form	
Appearance / Colour	transparent fibers
Packaging	900g in a hydro soluble paper bag (carton box with 30 bags)
Storage	
Storage Conditions / Shelf-Life	Store in a dry, covered place, protected from moisture and UV radiation.

Technical Data

Chemical Base	100% virgin polypropylene
Density	0.91 g/cm ³
Tenacity	6.5-7.0 g/denier-High tenacity
Length	12 mm ± 1mm



Application Information

Consumption	Approximately 900 g per bag per cubic meter concrete or mortar
Mixing	<p>Add SikaFiber® PPM-12 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 SikaFiber® PPM-12. Mix thoroughly during at least 5 minutes.</p> <p>Do not add any 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. ■ SikaFiber® PPM-12 can be used in addition to other Sika admixtures. ■ Should not be used to replace structural, load bearing reinforcement. ■ SikaFiber® PPM-12 should not be used as a means of using thinner concrete sections than original design ■ Do not increase mixing water when using fibers.
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	<p>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.</p>
	<p>It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.</p>




Note

The following chapter is only mandatory for countries relevant to CE marking

CE-marking

SikaFiber® PPM-12 have been tested and certified in compliance with the harmonised European standard EN 14889-2 “Fibres for concrete – Polymer fibres” according to system 3 “Polymer fibres for non-structural uses for concrete and mortars”.


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EN 14889-2 SYSTEM 3
Polymer fibres for non-structural use for mortar and concrete
Polymer type: Polypropylene
Class: 1.A.
Length: 12mm
Form: monofilament
Tensile strength: 600 - 700 MPa
Elastic Modulus: 3.000-3.500 MPa
Elongation: 20-25%
Consistency with 150 gram per 50 kg of cement: VeBe-time: 8 s