

PRODUCT DATA SHEET

SikaFiber®-12 PPM VN

POLYPROPYLENE MICROFIBERS FOR CONCRETE AND MORTAR

DESCRIPTION

SikaFiber®-12 PPM VN are 12 mm mono-filament polypropylene fibers for use in concrete and mortars.

USES

For most types of non-structural cementitious mortars and concrete with need to reduce the incidence of shrinkage cracking.

- Ground bearing slabs
- Screeds and overlays
- Renders and plasters
- Precast concrete elements

- Sprayed applications
- Extruded concrete
- Interior and exterior applications

CHARACTERISTICS / ADVANTAGES

- Safe and easy to use
- Improves durability
- Reduces tendency for plastic and drying shrinkage cracking
- Reduces plastic settlement
- Reduces permeability
- Reduces slab curling
- Increases impact resistance
- Reduces spalling at high temperatures

PRODUCT INFORMATION

Chemical base	Polypropylene	
Packaging	0.6 kg soluble bags	
Appearance / Colour	White fiber	
Shelf life	24 months if stored properly in original unopened packaging.	
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and + 30°C. Protect from direct sunlight, moisture and frost	
Density	~0.91 kg/l	
Dimensions	Length	~12 mm
	Diameter	35 ± 5µm
Melting Point	160 – 170 °C	

TECHNICAL INFORMATION

Concreting Guidance

The standard rules of good concreting practice for production and placing must be observed when using SikaFiber®-12 PPM VN in concrete. Refer to relevant standards.

Fresh concrete must be cured properly especially at high temperatures in

order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent.

Resistance to Alkalinity	Excellent
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APPLICATION INFORMATION

Recommended Dosage	0.6 kg per 1m ³ concrete. To reduce spalling at high temperatures contact Sika Technical Services for additional information
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DISPENSING	SikaFiber®-12 PPM VN should be added to the mixer after all other ingredients and water. Use a mixing time that ensures uniform dispersion of the fibre. Do not add the fibres directly into the mixing water.
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BASIS OF PRODUCT DATA

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.

ECOLOGY, HEALTH AND SAFETY

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 (available on request) containing physical, ecological, toxicological and other safety-related data.

IMPORTANT CONSIDERATION

- For best results use a good quality concrete / mortar.
- Fibres will not improve the quality of poor concrete or mortar.
- SikaFiber®-12 PPM VN is compatible with other Sika admixtures.
- Do not use to replace structural steel reinforcement.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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