

PRODUCT DATA SHEET

SikaFiber®-111 PPM

Polypropylene Fibers for Mortar and Concrete

DESCRIPTION

SikaFiber®-111 PPM is a monofilament polypropylene fiber primarily used for plastic shrinkage reinforcement in concrete. The use of SikaFiber®-111 PPM reduces plastic shrinkage cracks and plastic settlement in concrete.

USES

SikaFiber®-111 PPM can be used in all types of concrete and mortar.

SikaFiber®-111 PPM acts mechanically by reinforcing the concrete with multi-dimensional fiber network coated with mortar. SikaFiber®-111 PPM can decrease plastic and drying shrinkage cracking and increase impact resistance in young concrete. Typical application of SikaFiber®-111 PPM includes

- Slabs
- PQC concrete
- Sideways/Driveways/Decks/kerbs
- Precast elements
- Tunnel concrete
- Shotcrete etc.

CHARACTERISTICS / ADVANTAGES

- Reduces plastic shrinkage cracking
- Reduces plastic settlement
- Provides multi-dimensional reinforcement
- Improves impact, shatter and abrasion resistance of concrete
- Enhances durability and toughness of concrete
- Reduced explosive spalling of concrete if exposed to fire

PRODUCT INFORMATION

Chemical base	Polypropylene fibers
Packaging	900gm/600gm/450gm packets in large bags
Appearance / Colour	Translucent to white fibers
Shelf life	5 years if stored properly in dry conditions.
Storage conditions	Store in dry conditions. Protect from rain and fire.
Density	0.91 g/cm ³
Dimensions	Length: 6mm/12mm/20mm
Melting Point	165°C

APPLICATION INFORMATION

Recommended Dosage	Typical dosage of SikaFiber®-111 PPM is 0.9kg/M ³ . 0.45kg/M ³ and 0.6kg/M ³ can also be used as per the site specification and requirements.
Compatibility	SikaFiber®-111 PPM may be combined with many other Sika® Products. Compatible with all types of cements and cementitious materials.
Dispensing	SikaFiber®-111 PPM can be added directly to the concrete mixing system during or after the batching of the ingredients and mixed at high speed for four to five minutes. The addition of SikaFiber®-111 PPM at the recommended dosage rates to a given mix may decrease the workability, which should be adjusted by use of an appropriate water reducing admixture. The addition of SikaFiber®-111 PPM at the normal recommended dosage rate does not require any mix design or application changes.

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.

IMPORTANT CONSIDERATIONS

SikaFiber®-111 PPM does not affect the finishing characteristics of concrete.
SikaFiber®-111 PPM can be used in power/hand troweled concrete, coloured and broom finished concrete.

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 containing physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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