

PRODUCT DATA SHEET

SikaFiber® PPM-150

MONOFILAMENT POLYPROPYLENE CONCRETE FIBER

PRODUCT DESCRIPTION

SikaFiber® PPM-150 is a monofilament polypropylene fiber (manufactured from 100 % virgin polypropylene resin) specifically engineered for use in concrete as secondary reinforcement and for controlling plastic shrinkage and settlement cracking. SikaFiber® PPM-150 meets the requirements of ASTM C-1116, section 4.1.3 Type III fiber.

USES

The SikaFiber® PPM-150 can be used in all types of concrete. Typical applications include: slabs, sidewalks, driveways, patios, decks, curbs, precast elements, linings, etc. SikaFiber® PPM-150 acts mechanically by reinforcing the concrete with multidimensional fiber network coated with mortar. The SikaFiber® PPM-150 can decrease plastic and drying shrinkage cracking and increase impact resistance in young concrete. In case concrete is exposed to fire, the presence of SikaFiber® PPM-150 reduces the explosive spalling of the concrete. SikaFiber® PPM-150 does not affect curing process chemically and does not absorb water.

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.
- Reduces bleeding.
- Excellent finishability.

PRODUCT INFORMATION

Packaging	SikaFiber® PPM-150 is available in graded and single size lengths in various pack sizes in degradable bags.
Shelf Life	When stored in dry conditions shelf life is 5 years.
Storage Conditions	SikaFiber® PPM-150 should be stored in a dry warehouse. Protect product from the rain.
Density	0.91

Dimensions	Fiber Length: Multi-length (0.5" and 0.75")
Product Declaration	Monofilament polypropylene
Melting Point	320 °F (160 °C)

TECHNICAL INFORMATION

Tensile Strength	40–60 ksi (165 MPa)
Tensile Modulus of Elasticity	500 ksi
Resistance to Alkalinity	Excellent

APPLICATION INFORMATION

Recommended Dosage	Typical standard dosage rate of SikaFiber® PPM-150 in concrete is 0.75–1.5 lb/cu.yd (0.4–0.9 kg/m ³) or as required by specific mix design.
Mixing	SikaFiber® PPM-150 is packaged in degradable bags which readily break up during the mixing of concrete. SikaFiber® PPM-150 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. Additional mixing does not adversely affect the distribution or overall performance of SikaFiber® PPM-150. The addition of SikaFiber® PPM-150 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.

APPLICATION INSTRUCTIONS

Fiber reinforced concrete can be finished by most finishing techniques. SikaFiber® PPM-150 does not affect the finishing characteristics of concrete. SikaFiber® PPM-150 can be used in power/hand troweled concrete, colored and broom finished concrete.

Compatibility: SikaFiber® PPM-150 is compatible with all types of cements, supplementary cementitious materials and Sika admixtures.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY**

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