

# PRODUCT DATA SHEET

## SikaFiber® PPF-300

### Fibrillated Polypropylene Concrete Fiber

#### PRODUCT DESCRIPTION

SikaFiber® PPF-300 is a fibrillated polypropylene fiber for use in fiber reinforced concrete. SikaFiber® PPF-300 is primarily used for the purpose of providing secondary/temperature shrinkage reinforcement in concrete. The fibrillated pattern of SikaFiber® PPF-300 optimizes the mechanical bond between the mortar matrix and fiber networks providing better control of plastic shrinkage cracking and plastic settlement cracking. SikaFiber® PPF-300 provides a good alternative to welded wire fabric in light commercial and residential slab-on-grade applications. SikaFiber® PPF-300 meets the requirements of ASTM C-1116, Type III fiber. Fibers should be added to the concrete mix at a rate of 1.5 lbs/cu.yd.

#### USES

SikaFiber® PPF-300 acts mechanically by reinforcing the concrete with multidimensional fiber network coated with mortar. SikaFiber® PPF-300 can be used in all types of concrete.

Typical applications include: Residential and commercial slab-on-grade, decks, precast elements, etc. The SikaFiber® PPF-300 can decrease plastic and drying shrinkage cracking and increase impact resistance in concrete. In case concrete is exposed to fire, the presence of SikaFiber® PPF-300 in concrete reduces the explosive spalling.

SikaFiber® PPF-300 can be used in shotcrete to reduce rebound and allow higher thickness in one pass. SikaFiber® PPF-300 does not affect the concrete curing process and does not absorb mix water.

#### CHARACTERISTICS / ADVANTAGES

- Provides temperature-shrinkage reinforcement.
- Reduces plastic shrinkage and plastic settlement cracking.
- 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® PPF-300 is available in Multi-length, 0.5" and 0.75" length in various pack sizes in degradable bags.

<b>Shelf Life</b>	If stored in dry conditions shelf life is 5 years.
<b>Storage Conditions</b>	SikaFiber® PPF-300 should be stored in a dry warehouse. Protect product from the rain.
<b>Density</b>	0.91
<b>Dimensions</b>	Length: Multi-length, 0.5" and 0.75"
<b>Product Declaration</b>	Fibrillated polypropylene
<b>Melting Point</b>	320 °F (160 °C)

## TECHNICAL INFORMATION

<b>Tensile Strength</b>	40–60 ksi
<b>Tensile Modulus of Elasticity</b>	600 ksi
<b>Resistance to Alkalinity</b>	Excellent

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	Typical standard dosage rate of SikaFiber® PPF-300 in concrete is 1.5 lb/cu.yd or as required by specific mix design.
<b>Mixing</b>	SikaFiber® PPF-300 is packaged in degradable bags which readily break up during the mixing of concrete. SikaFiber® PPF-300 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® PPF-300. The addition of SikaFiber® PPF-300 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® PPF-300 at the normal recommended dosage rate does not require any mix design or application changes.

## APPLICATION INSTRUCTIONS

### Tooling and Finishing

Fiber reinforced concrete can be finished by most finishing techniques. SikaFiber® PPF-300 does not affect the finishing characteristics of concrete. SikaFiber® PPF-300 can be used in power/hand troweled concrete, colored and broom finished concrete.

**Compatibility:** SikaFiber® PPF-300 is compatible with all types of cements, supplementary cementitious materials and Sika admixtures.

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.

## BASIS OF PRODUCT DATA

## 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](http://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 LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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