SikaFiber® PPF

Fibrillated Polypropylene Micro-Synthetic Fiber

Description SikaFiber* PPF is a fibrillated polypropylene fiber for use in fiber reinforced concrete. SikaFiber* PPF is primarily used for the purpose of providing secondary/temperatureshrinkage reinforcement in concrete. The fibrillated pattern of SikaFiber® PPF optimizes the mechanical bond between the mortar matrix and fiber networks. This provides better control of plastic shrinkage cracking and plastic settlement cracking. SikaFiber® PPF provides a good alternative to welded wire fabric in light commercial and residential slab-on-grade applications. SikaFiber® PPF meets the requirements of ASTM C-1116, Type III fiber and ICC ES AC32 sections 3.1.1 (plastic shrinkage reinforcement) and 3.1.2 (temperature-shrinkage reinforcement). **Applications** SikaFiber® PPF acts mechanically by reinforcing the concrete with multi-dimensional fiber network coated with mortar. SikaFiber* PPF can be used in all types of concrete. Typical applications include -Residential and commercial slab-on-grade, decks, precast elements etc. SikaFiber® PPF 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® PPF in concrete prevents explosive spalling of the concrete. SikaFiber® PPF can be used in shotcrete to reduce rebound and allow for building higher thickness in SikaFiber® PPF does not affect the concrete curing process and does not absorb mix

Benefits

- 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.

water.

■ Excellent finishability.

Typical Data

Fiber Type Fibrillated polypropylene

Fiber length 0.75" (19 mm), 1.5" (38 mm) or 2" (51 mm)

Specific gravity 0.91

E - modulus 800 ksi (5516 MPa) **Alkali resistance** Excellent Alkali resistance

Melting point 320°F (160°C)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.



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How to Use	
Dosage	Typical standard dosage rate of SikaFiber® PPF in concrete is 1.5 lb/cu.yd (0.9 kg/m3) or as required by specific mix design.
Mixing	SikaFiber* PPF is packaged in degradable bags which readily break up during the mixing of concrete. SikaFiber* PPF 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. The addition of SikaFiber* PPF 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 at the normal recommended dosage rate does not require any mix design or application changes.
Tooling & Finishing	Fiber reinforced concrete can be finished by most finishing techniques. SikaFiber® PPF does not affect the finishing characteristics of concrete. SikaFiber® PPF can be used in power/hand troweled concrete, colored and broom finished concrete.
	Compatibility: SikaFiber® PPF is compatible with all types of cements, supplementary cementitious materials and Sika admixtures.
Packaging	SikaFiber® PPF is available in 0.75" (19 mm), 1.5" (38 mm) or 2" (51 mm) length in various pack sizes in degradable bags.
Storage and Shelf Life	SikaFiber* PPF should be stored in dry warehouse. Protect product from the rain.
	If stored in dry conditions shelf life is 5 years.

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

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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 shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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Quality Certification Numbers: Lyndhurst: FM 69711 (ISO 9000), FM 70421 (QS 9000), Marion: FM 69715, Kansas City: FM 69107, Santa Fe Springs: FM 69408



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