

Sika® Fiber N

Nylon Fiber

Construction

Description	Sika Fiber N is a monofilament nylon fiber for use in fiber reinforced concrete and shotcrete. Sika Fiber N is specifically designed for use in concrete as secondary reinforcement and for the purpose of controlling plastic shrinkage and settlement cracking. Sika Fiber N meets the requirements of ASTM C-1116.	
Areas of Application	<p>Sika Fiber N utilizes the mixing activity to disperse the fibers into the concrete mix. Sika Fiber N acts mechanically by reinforcing the concrete with a multi-dimensional fiber network. Sika Fiber N does not affect curing process chemically.</p> <p>The Sika Fiber N can be used in all types of concrete. Synthetic fibers help the concrete at early ages, which is especially beneficial to precasters where stripping time and handling is important. The Sika Fiber N decreases plastic and drying shrinkage cracking and increase impact resistance in young concrete.</p> <p>The Sika Fiber N used in shotcrete applications will increase the compaction and density of shotcrete, reducing rebound and permitting thicker layers per pass.</p>	
Advantages/Benefits	<ul style="list-style-type: none">■ Reduces the formation of plastic shrinkage cracking in concrete.■ Provides multi-dimensional reinforcement.■ Improves impact, shatter and abrasion resistance of concrete.■ Enhances durability and toughness of concrete.■ Reduces bleeding.■ Excellent finishability.	
Typical Data	Fiber Type:	Monofilament polypropylene
	Fiber length:	¾"
	Specific gravity:	1.16
	Alkali resistance:	Excellent Alkali resistance
	Absorption:	4 - 5%
	Melting Point:	490 - 510°F
How to Use		
Dosage	Standard recommended dosage rate of Sika Fiber N is 1 lb. per cubic yard of concrete or as required by specific mix design.	
Mixing	Sika Fiber N 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 Sika Fiber N. The addition of Sika Fiber N at the recommended dosage rates to a given mix will decrease the slump; however, additional water should not be added. Only a water reducing admixture should be used to adjust concrete to the desired workability required for placement.	
Application	The addition of Sika Fiber N at the normal recommended dosage rate does not require any mix design or application changes. A mid range or high range water reducer is recommended in concrete placements where improved workability and finishability are desired.	

Tooling & Finishing

Fiber reinforced concrete can be finished by most finishing techniques. Sika Fiber N does not affect the finishing characteristics of concrete. Sika Fiber N can be used in power/hand troweled concrete, colored and broom finished concrete.

Placing: Sika Fiber N can be pumped and placed using conventional equipment. Hand screeds can be used, but vibratory and laser screeds are recommended to provide added compaction and bury surface fibers.

Finishing: Normal finishing equipments and techniques can be used when finishing Sika Fiber N. Troweling blades should be kept at a flat angle for as long as possible to insure a fiber free surface.

Packaging ¾" 1.00 lb/dispersable bag 30 lbs/box 36 boxes/pallet

Storage and Shelf Life Sika Fiber N should be stored in dry warehouse. Protect product from the rain. If stored in dry conditions shelf life is 1 year.

CAUTION: **IRRITANT.** Product may act as a mechanical eye irritant. Handling product may result in cuts to the hands. If ingested may irritate gastrointestinal system. No inhalation hazards are expected under normal use in its inert form. Prolonged, repeated exposure to fumes or dust generated during heating, cutting, welding or brazing may cause respiratory irritation.

Handling and Storage Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent contact with skin and eyes. Use only in well ventilated areas. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse.

First Aid **Eyes:** Hold eyelids apart and flush thoroughly with water for 15 minutes. **Skin:** Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. **Inhalation:** If inhaled, remove to fresh air. Obtain medical attention if irritation develops and persists. **Ingestion:** Do not induce vomiting. Dilute with water. Contact physician. **In all cases contact a physician immediately if symptoms persist.**

Clean Up Use personal protective equipment (chemical resistant goggles/gloves/clothing). Without direct contact, remove spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.

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

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Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: (201) 933-8800
Fax: (201) 933-6225
www.sikaconstruction.com

Sika Canada Inc.
601, Delmar Avenue
Pointe-Claire, QC H9R 4A9
Phone: (514) 697-2610
Fax: (514) 697-3087
www.sika.ca

1-800-933-SIKA



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Regional Information and Sales Centers. For the location of your nearest Sika representative, contact your regional center.

U.S. : **North East Region:** Fairless Hills, PA, Phone: (215) 295 -6600
South East Region: Conyers, GA, Phone: (770) 760-1300

North Central Region: Marion, OH, Phone: (800) 851-1545
South Central Region: Mesquite, TX, Phone: (972) 289-6480
Western Region: Santa Fe Springs, CA, Phone: (562) 903-3650

Canada: Ontario: Mississauga, ON, Phone: (905) 795-3177,

Alberta: Edmonton, AB, Phone: (780) 486-6111

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

Made in USA

