

# SikaFiber® FN

## Nylon Fiber

**Description** SikaFiber® FN is a pre-packaged monofilament nylon micro-fiber for use as secondary reinforcement in concrete. Manufactured from 100% virgin nylon (polyamides), SikaFiber® FN is designed to control plastic shrinkage and settlement cracking as secondary concrete reinforcement, SikaFiber® FN meets the requirements of ASTM C-1116, Type III fiber.

**Applications** SikaFiber® FN monofilament nylon micro-fibers are added to ready-mix concrete to modify the behavior of high tensile stress areas of concrete. Concrete modified with SikaFiber® FN has improved tensile and flexural strengths.

Cross sections of concrete with SikaFiber® FN reveal efficiently located secondary reinforcement. High fiber count per pound assures 3D random fiber orientation as well as improved ductility and toughness. Recommended uses include slabs on grade, architectural concrete and precast concrete.

- Benefits**
- High fiber count
  - Excellent tensile strength
  - Complete distribution
  - UV stability
  - User friendly packaging
  - Increased density
  - High elasticity

<b>Typical Data</b>	<b>Material:</b>	Monofilament 100% virgin nylon
	<b>Specific Gravity:</b>	1.14
	<b>Length:</b>	0.5" and 0.75"
	<b>Fiber Denier:</b>	2-4 DPF
	<b>Melt Point:</b>	493°F (256°C)
	<b>Water Absorption:</b>	4-5%
	<b>Alkali Resistance:</b>	Excellent

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

Concrete



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**How to Use**

<b>Dosage</b>	Typical dosage for SikaFiber® FN is 1.0 lb. per cubic yard of concrete or as required by specific mix design.
<b>Mixing</b>	SikaFiber® FN fibers can be added to the mixture at any time prior to placement of concrete. It is recommended to add any fiber material at the ready-mix concrete plant during batching. Fibers must be mixed with concrete for a minimum of five minutes at maximum mixing speed to ensure complete dispersion and uniformity.
<b>Application</b>	<p>Refer to ACI 544.3R for detailed mixing and placing instructions. Make sure the bleed water is gone and concrete is sufficiently set before trowelling. Since concrete with fibers appears stiffer, finishers must exercise care to avoid trowelling concrete too soon. Proper finishing procedures will reduce exposed fibers on finished concrete surfaces.</p> <p>SikaFiber® FN increases the cohesiveness of concrete, which produces greater workability at the same slump. As a result of the increased cohesiveness, the concrete may appear stiffer than it is actually.</p> <p>If additional workability is required, a Sika water-reducer or superplasticizer is recommended instead of extra mixing water.</p> <p>SikaFiber® FN concrete should be cured using the same methods as for conventional concrete. SikaFiber® FN disperses quickly and uniformly throughout the concrete. SikaFiber® FN is NOT a substitute for any structural or negative movement reinforcement.</p>
<b>Packaging</b>	SikaFiber® FN is available in 0.5" and 0.75" lengths in various pack sizes in degradable bags.
<b>Storage and Shelf Life</b>	<p>SikaFiber® FN should be stored in dry warehouse. Protect product from the rain.</p> <p>If stored in dry conditions without direct sunlight, shelf life is 5 years.</p>

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