

NYCON-XL-A
Monofilament, High Performance Acrylic, Small Denier, Micro-Macro



Nycon-XL-A monofilament micro-macro fibers are a high-dose fiber for thin and superior finish macro applications.



NYCON-XL-A Physical Properties

Filament Diameter	2 Denier (9 Microns)
Fiber Length	0.125" (3mm), 0.25" (6mm), 0.50" (13mm), 0.75" (19mm), or 1" (25mm)
Specific Gravity	1.2
Tensile Strength	100 ksi (690 MPa)
Flexural Strength	600 ksi (4.2 GPa)
Melting Point	290° F (145° C)
Color	White
Water Absorption	1% by Weight
Alkali Resistance	Excellent
Concrete Surface	Not Fuzzy
Corrosion Resistance	High

Description

NYCON-XL-A fiber products are ultra-fine (2d) monofilament, high-performance acrylic fibers for use in fiber reinforced concrete, stucco and shotcrete. NYCON-XL-A is specifically designed for use in concrete products for the purpose of controlling plastic shrinkage and thermal cracking, and post crack issues.

NYCON-XL-A meets the requirements of ASTM C-1116, Section 4.1.3, AC-32 at 0.5 lb (0.22 kg) per CY, and ASTM C-1399.

Applications

NYCON-XL-A utilizes the mixing activity to disperse the fibers into the mix. NYCON-XL-A acts with an aggressive surface bond in the concrete with a multi-dimensional, fiber network. NYCON-XL-A does not affect curing process chemically.

NYCON-XL-A can be used in all types of concrete. Synthetic fibers help the concrete at early ages, which is especially beneficial where stripping time and handling is important.

NYCON-XL-A used in shotcrete applications will increase the compaction and density of shotcrete, reducing rebound and permitting thicker layers per pass.

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Advantages/Benefits	<ul style="list-style-type: none">• Aggressive surface bond with the concrete• 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• Excellent, “no fuzz” finishability
Mixing	NYCON-XL-A can be added directly to the mixing system during or after the batching of the ingredients and mixed at high speed for a minimum of five minutes. Additional mixing does not adversely affect the distribution or overall performance of NYCON-XL-A. The addition of NYCON-XL-A at the normal recommended dosage rate (2-3 lb/cy) does not require any mix design or application changes. A water reducer or superplasticizer is recommended in concrete products where improved workability and finishability are desired.
Tooling & Finishing	Fiber reinforced concrete can be finished by most finishing techniques. NYCON-XL-A does not affect the finishing characteristics of concrete. NYCON-XL-A can be used in power/hand troweled concrete, colored and broom finished concrete. NYCON-XL-A 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.
Packaging	(50) 1 lb (0.45 kg) bags per box, 1000 lbs per pallet Nycon-XL-A Fibers are packaged in pre-measured 1 lb degradable “toss-in” paper beater bags or Nycon Melt-Away® Bags.
Storage and Shelf Life	NYCON-XL-A should be stored in dry warehouse. Protect product from the rain.

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

All information provided by Nycon Corporation concerning Nycon products, including but not limited to, any recommendations and advice relating to the application and use of Nycon products, is given in good faith based on Nycon's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Nycon's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Nycon's control are such that Nycon assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Nycon product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s).

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Nycon warrants this product for one year from date of shipment 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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