

NYCON-XL-M
Monofilament High Performance PP, Medium Denier, Micro-Macro



Nycon-XL-M monofilament micro-macro fibers are a high-dose, medium denier fibers for thin and superior finish macro applications.

NYCON-XL-M Physical Properties

Filament Diameter	8 Denier (38 Microns)
Fiber Length	0.75" (19 mm) or 1" (25 mm)
Specific Gravity	0.91
Tensile Strength	100 ksi (690 MPa)
Flexural Strength	600 ksi (4.2 GPa)
Melting Point	320° F (160° C)
Color	White
Water Absorption	Nil
Alkali Resistance	Excellent
Concrete Surface	Not Fuzzy
Corrosion Resistance	High



Description

NYCON-XL-M fiber products are medium denier (8d) monofilament, high-performance micro-macro fibers for use in fiber reinforced concrete, stucco and shotcrete. NYCON-XL-M is specifically designed for use in concrete products for the purpose of controlling plastic shrinkage, thermal cracking, and post crack issues.

NYCON-XL-M meets the requirements of ASTM C-1116, Section 4.1.3, AC-32 at 1lb (0.45 kg) per CY, and ASTM C-1399 at required doses

Applications

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

NYCON-XL-M 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-M 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 mechanical 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• Improves post-crack strength
Mixing	NYCON-XL-M 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-M. The addition of NYCON-XL-M at the normal recommended dosage rate (2-4 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-M does not affect the finishing characteristics of concrete. NYCON-XL-M can be used in power/hand troweled concrete, colored and broom finished concrete. NYCON-XL-M 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	(30) 1 lb (0.45 kg) bags per box, 600 lbs per pallet. Other packaging available. Nycon-XL-M Fibers are packaged in pre-measured degradable "toss-in" paper beater bags or Nycon Melt-Away® Bags.
Storage and Shelf Life	NYCON-XL-M 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

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