



NYCON-XL is a leading fibrillated macro for sustainable, structurally enhanced concrete products.

NYCON-XL Physical Properties

Filament Diameter	0.06" (1.52 mm)
Fiber Length	1.5" (38 mm) or 2" (50 mm)
Specific Gravity	0.91
Tensile Strength	90 ksi (615 MPa)
Flexural Strength	400 ksi (2.8 GPa)
Melting Point	320° F (160° C)
Color	White
Water Absorption	Nil
Alkali Resistance	Excellent
Concrete Surface	Commercial
Corrosion Resistance	High

Description

NYCON-XL fiber products are fibrillated polyolefin/PP fibers for use in fiber reinforced concrete, stucco and shotcrete. NYCON-XL is specifically designed for use in concrete products for the purpose of providing post-crack strength.

NYCON-XL meets the requirements of ASTM C-1116 and ASTM C-1399.

Applications

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

NYCON-XL can be used in all types of concrete. Fibrillated macro fibers improve resistance to cracking and offer post-crack strength.

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

NYCON-XL

Fibrillated Virgin Polyolefin/PP, Large Denier, Macro-Net



Advantages/Benefits	<ul style="list-style-type: none">• Mechanical net bond with the concrete• Provides multi-dimensional reinforcement• Improves impact, shatter and abrasion resistance of concrete• Enhances durability and toughness of concrete
Mixing	NYCON-XL 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. The addition of NYCON-XL at the normal recommended dosage rate does not require any mix design or application changes. A water reducer or super-plasticizer 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 can be pumped and placed using conventional equipment. Hand screeds can be used, but vibratory and laser screeds are recommended.
Packaging	(36) 1 lb (0.45 kg) bags per box, 720 lbs per pallet. Larger bag sizes available. Nycon-XL Fibers are packaged in pre-measured degradable “toss-in” paper beater bags or water soluble Bags.
Storage and Shelf Life	NYCON-XL 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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800-456-9266

www.nycon.com

sales@nycon.com