

NYCON-MULTIMESH
 Virgin Nylon, Medium Denier, Superior Finish



NYLON IS BETTER THAN POLYPROPYLENE
 NYCON-MULTIMESH is an 8-denier virgin nylon monofilament fiber that offers reduced dose per cubic yard while providing plastic shrinkage crack control and superior finish.



NYCON-MULTIMESH Physical Properties

Filament Diameter	8 Denier (38 Microns)
Fiber Length	0.25" (6mm), 0.5" (13mm) or 0.75" (19mm)
Specific Gravity	1.15
Tensile Strength	44 ksi (300 MPa)
Flexural Strength	400 ksi (2.8 GPa)
Melting Point	435° F (225° C)
Color	White
Water Absorption	3% by Weight
Alkali Resistance	High
Concrete Surface	Not Fuzzy
Corrosion Resistance	High



Description

NYCON-MULTIMESH fiber products are 8 denier, monofilament nylon fibers for use in fiber reinforced concrete, stucco and shotcrete. NYCON-MULTIMESH is specifically designed for use in concrete products for the purpose of controlling plastic shrinkage and thermal cracking.

NYCON-MULTIMESH meets the requirements of ASTM C-1116, Section 4.1.3 and AC-32 at 1.0 lb (0.45 kg) per CY. MULTIMESH has completed ICC-ES evaluation as reported in ER 5460.

Applications

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

NYCON-MULTIMESH 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-MULTIMESH 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">• 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-MULTIMESH 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-MULTIMESH. The addition of NYCON-MULTIMESH 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	<p>Fiber reinforced concrete can be finished by most finishing techniques. NYCON-MULTIMESH does not affect the finishing characteristics of concrete. NYCON-MULTIMESH can be used in power/hand troweled concrete, colored and broom finished concrete.</p> <p>NYCON-MULTIMESH 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.</p>
Packaging	(50) 1 lb (0.45 kg) paper beater bags per box, 1000 lbs per pallet (60) 1 lb (0.45 kg) water soluble bags per box, 1200 lbs per pallet
Storage and Shelf Life	NYCON products 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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