

NYCON-PVA RFS400
PVA (Polyvinyl Alcohol), Medium Denier, Superior Bond



ULTRA-HIGH PERFORMANCE FIBERS

PVA fibers are unique in their ability to create a fully-engaged molecular bond with mortar and concrete that is **300% greater** than other fibers.



NYCON-PVA RFS400 Physical Properties

Filament Diameter	40 Denier (200 Microns)
Fiber Length	0.75" (19 mm)
Specific Gravity	1.3
Tensile Strength	150 ksi (1000 MPa)
Flexural Strength	4200 ksi (29 GPa)
Melting Point	435° F (225° C)
Color	White
Water Absorption	<1% by Weight
Alkali Resistance	Excellent
Concrete Surface	Not Fuzzy
Corrosion Resistance	Excellent



Description

NYCON-PVA RFS400 fiber products are 40 denier, monofilament PVA fibers for use in fiber reinforced concrete, stucco, shotcrete and precast. NYCON-PVA RFS400 is specifically designed for use in concrete products for the purpose of controlling plastic shrinkage, thermal cracking and improving abrasion resistance.

NYCON-PVA RFS400 meets the requirements of ASTM C-1116, Section 4.1.3 and AC-32 at 1.0 lb (0.45 kg) per CY.

Applications

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

NYCON-PVA 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.

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Advantages/Benefits	<ul style="list-style-type: none">• Molecular 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-PVA RFS400 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-PVA. The addition of NYCON-PVA at the normal or high 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-PVA does not affect the finishing characteristics of concrete. NYCON-PVA can be used in power/hand troweled concrete, colored and broom finished concrete.</p> <p>NYCON-PVA 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	<p>(35) 1 lb (0.45 kg) paper beater bags per box, 700 lbs per pallet</p> <p>(35) 1 lb (0.45 kg) water soluble bags per box, 700 lbs per pallet</p> <p>(21) 40 lb (18 kg) paper bulk bags, 693 lbs per pallet</p>
Storage and Shelf Life	NYCON-PVA 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
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