

NYCON-PVA RECS15
PVA (Polyvinyl Alcohol), Small 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 RECS15 Physical Properties

Filament Diameter	8 Denier (38 Microns)
Fiber Length	0.375" (8mm)
Specific Gravity	1.3
Tensile Strength	240 ksi (1600 MPa)
Flexural Strength	5700 ksi (40 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 RECS15 fiber products are 8 denier, monofilament PVA fibers for use in fiber reinforced concrete, stucco and precast. NYCON-PVA RECS15 is specifically designed for use in concrete products for the purpose of controlling plastic shrinkage, thermal cracking and improving abrasion resistance. When NYCON-PVA RECS15 is used at high doses it can dramatically improve flexural characteristics of concrete products.

NYCON-PVA RECS15 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

- 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 RECS15 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

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.

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.

Packaging

- (30) 1 lb (0.45 kg) paper beater bags per box, 600 lbs per pallet
- (30) 1 lb (0.45 kg) Melt-Away® bags per box, 600 lbs per pallet
- (21) 40 lb (18 kg) paper bulk bags, 840 lbs per pallet

NYCON-PVA Fibers are packaged in pre-measured 1 lb (0.45kg) degradable "toss-in" paper beater bags, Nycon Melt-Away® Bags or bulk bags.

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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