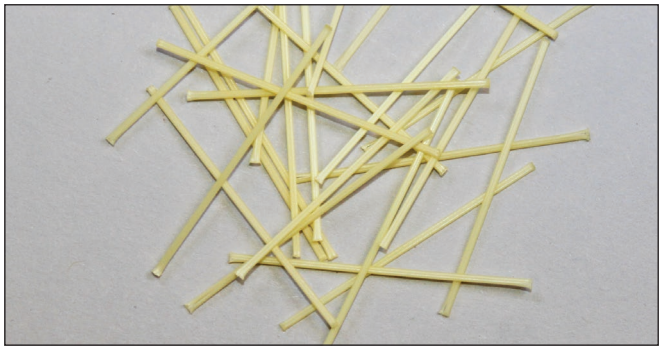
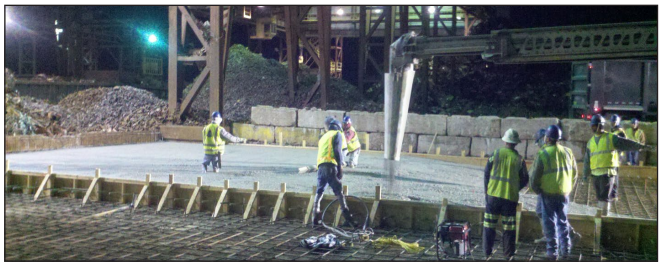
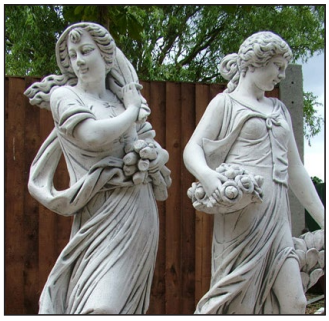
NYCON-PVA RF4000

PVA (Polyvinyl Alcohol), Large Denier Macro, 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 RF4000 is a component of the Nycon TUFF-SLAB™ blend.

NYCON-PVA RF4000 Physical Properties

Filament Diameter	130 Denier (660 Microns)
Fiber Length	1.25" (30 mm)
Specific Gravity	1.3
Tensile Strength	120 ksi (800 MPa)
Flexural Strength	3300 ksi (23 GPa)
Melting Point	435° F (225° C)
Color	Yellow
Water Absorption	<1% by Weight
Alkali Resistance	Excellent
Concrete Surface	Not Fuzzy
Corrosion Resistance	Excellent

Description

NYCON-PVA RF4000 fiber products are 130 denier, monofilament PVA fibers for use in fiber reinforced concrete, shotcrete, TUFF-SLAB™ and precast. NYCON-PVA RF4000 is specifically designed for use in concrete products for the purpose of controlling plastic shrinkage, thermal cracking and improving abrasion resistance.

NYCON-PVA RF4000 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. NYCON-PVA RF4000 at 6 lb (2.7 kg) per CY is the macro fiber and NYCON-PVA RSC15 at 3 lbs (1.35 kg) per CY is the micro fiber used together in Nycon's TUFF-SLAB™ product.

800-456-9266 | **www.nycon.com** | **sales@nycon.com**

NYCON-PVA RF4000

PVA (Polyvinyl Alcohol), Large Denier Macro, Superior Bond

NYCON
OVER 25 YEARS OF REINFORCING FIBERS

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 RF4000 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) water soluble bags per box, 600 lbs per pallet
(21) 22 lb (10 kg) paper bulk bags, 462 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
All information provided by Nycon Corporation concerning Nycon products, including but not limited to, any recommendations and advice relating to the application and use of Nycon products, is given in good faith based on Nycon's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Nycon's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Nycon's control are such that Nycon assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Nycon product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s).

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Nycon warrants this product for one year from date of shipment to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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