PVA RSC15

PVA (POLYVINYL ALCOHOL), SMALL DENIER, SUPERIOR BOND

PVA fibers are unique in their ability to create a fully-engaged molecular bond with mortar and concrete that is 300% > other fibers. RSC15 is a component of the NYCON TUFF SLAB® blend.

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

Product Specs

Apparent Fineness	15.0 dtex ± 3.0
Filament Diameter	13.5 Denier (38 Microns)
Fiber Length	0.315" (8mm ± 1.0)
Specific Gravity	1.3
Tensile Strength	207 ksi (1430 MPa ± 325) 11.0 cN/dtex ± 2.5
Elongation at Break	6.5% ± 1.5
Melting Point	Over 392° F (200° C)
Color	White
Alkali Resistance	Excellent
Concrete Surface	Not Fuzzy
Corrosion Resistance	Excellent

Product Description

RSC15 fiber products are 13.5 denier, monofilament PVA fibers for use in fiber reinforced concrete, stucco, TUFF SLAB® and precast. RSC15 is specifically designed for use in concrete products for the purpose of controlling plastic shrinkage, thermal cracking and improving abrasion resistance.

Application

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

PVA can be used in all types of concrete. RSC15 at 3 lb (1.35 kg) per CY is the micro fiber and RF4000 at 6 lb (2.7 kg) per CY is the macro fiber used together in NYCON's TUFF SLAB® product.

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

RSC15 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 PVA. The addition of 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.

NYCON®

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Storage and Shelf Life

NYCON products should be stored in dry warehouse. Protect product from the rain.

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) 40 lb (18 kg) paper bulk bags, 840 lbs per pallet

Tooling & Finishing

Fiber reinforced concrete can be finished by most finishing techniques. PVA does not affect the finishing characteristics of concrete. PVA can be used in power/hand troweled concrete, colored and broom finished concrete.

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.

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