

RECS100

PVA (POLYVINYL ALCOHOL),
MEDIUM 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.

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

Fineness	100 dtex \pm 20
Filament Diameter	90 Denier (100 Microns)
Fiber Length	0.472" (12.0mm \pm 2.0)
Specific Gravity	1.3
Tensile Strength	179 ksi (1235 MPa \pm 325) 9.5 cN/dtex \pm 2.5
Elongation at Break	12.5 % \pm 2.5
Melting Point	Over 392° F (200° C)
Color	White
Alkali Resistance	Excellent
Concrete Surface	Not Fuzzy
Corrosion Resistance	Excellent

Product Description

RECS100 fiber products are 90 denier, monofilament PVA fibers for use in fiber reinforced concrete, stucco, shotcrete and precast. RECS100 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. Synthetic fibers help the concrete at early ages, which is especially beneficial where stripping time and handling is important.

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

RECS100 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.



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

PVA Fibers are packaged in pre-measured 1 lb (0.45kg) degradable “toss-in” paper beater bags, water soluble bags or bulk bags.

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.

KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY

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