

RC

VIRGIN NYLON, SMALL DENIER,
SUPERIOR FINISH

A 2-denier virgin nylon monofilament fiber that offers reduced dose per cubic yard while providing plastic shrinkage crack control and superior finish.

Meets the requirements of ASTM C-1116, Section 4.1.3 and AC-32 at 0.75 lb (0.34 kg) per CY.

Product Specs

Filament Diameter	2 Denier (9 Microns)
Fiber Length	0.25" (6mm), 0.5" (13mm) or 0.75" (19mm)
Specific Gravity	1.15
Tensile Strength	44 ksi (300 MPa)
Flexural Strength	400 ksi (2.8 GPa)
Melting Point	435° F (225° C)
Color	White
Water Absorption	3% by Weight
Alkali Resistance	High
Concrete Surface	Not Fuzzy
Corrosion Resistance	High

Product Description

RC fiber products are ultra-fine (2d), monofilament nylon fibers for use in fiber reinforced concrete, stucco and shotcrete. RC is specifically designed for use in concrete products for the purpose of controlling plastic shrinkage and thermal cracking.

Application

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

RC 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.

RC used in shotcrete applications will increase the compaction and density of shotcrete, reducing rebound and permitting thicker layers per pass.

Advantages/Benefits

- Surface 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

RC 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 RC. The addition of RC at the normal recommended 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

- (50) 1 lb (0.45 kg) bags per box, 1000 lbs per pallet
- (65) 0.75 lb (0.34 kg) bags per box, 975 lbs per pallet

Tooling & Finishing

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

RC 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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