

# XL-100

MONOFILAMENT, POLYOLEFIN/PP, LARGE DENIER, MACRO FIBER

Used to control cracking and as an alternate to traditional wire mesh reinforcement.

*Meets requirements of ASTM C-1116, Section 4.1.3, ASTM C-1399 and ASTM D7508.*

## Product Specs

Filament Diameter	.5 mm
Fiber Length	1" (25 mm) or 1.5" (38 mm)
Specific Gravity	0.91
Tensile Strength	100 ksi (690 MPa)
Flexural Strength	1305 ksi (9.0 GPa)
Melting Point	320° F (160° C)
Color	White
Water Absorption	Nil
Alkali Resistance	Excellent
Aspect Ratio	50 - 76
Corrosion Resistance	High

## Product Description

XL-100 fibers are monofilament, high-performance macro fibers for use in concrete products for the purpose of controlling cracks and replacing traditional wire mesh reinforcement.

## Applications

- Slab-on-Grade
- Precast
- Shotcrete
- Ready Mixed Concrete

## Advantages/Benefits

- Mechanical bond with the concrete
- Provides multi-dimensional reinforcement
- Improves durability and toughness of concrete
- Alternate to wire mesh
- Cost effective

## Mixing

XL-100 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 XL-100. The addition of XL-100 at the normal recommended dosage rate (3-6 lb/cy) 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) bags per box, 600 lbs per pallet.  
Other packaging available.

XL-100 Fibers are packaged in pre-measured degradable “toss-in” paper beater bags or water-soluble Bags.

## Tooling & Finishing

Fiber reinforced concrete can be finished by most finishing techniques. XL-100 does not affect the finishing characteristics of concrete. XL-100 can be used in power/hand troweled concrete, colored and broom finished concrete.

XL-100 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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