

NYCON-XL-A
Monofilament, High Performance Acrylic, Small Denier, Micro



Nycon-XL-A monofilament micro fibers are high performing fibers for plastic shrinkage crack control.

NYCON-XL-A Physical Properties

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| Filament Diameter | 2 Denier (9 Microns) |
| Fiber Length | 0.125" (3mm), 0.25" (6mm), 0.50" (13mm), 0.75" (19mm), or 1" (25mm) |
| Specific Gravity | 1.2 |
| Tensile Strength | 100 ksi (690 MPa) |
| Flexural Strength | 600 ksi (4.2 GPa) |
| Melting Point | 290° F (145° C) |
| Color | White |
| Water Absorption | 1% by Weight |
| Alkali Resistance | Excellent |
| Concrete Surface | Not Fuzzy |
| Corrosion Resistance | High |



Description

NYCON-XL-A fiber products are ultra-fine (2d) monofilament, high-performance acrylic fibers for use in concrete, stucco and shotcrete. NYCON-XL-A is specifically designed for use in concrete products for the purpose of controlling plastic shrinkage and thermal cracking.

NYCON-XL-A meets the requirements of ASTM C-1116, Section 4.1.3, AC-32 at 0.5 lb (0.22 kg) per CY, and ASTM C-1399.

Applications

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

NYCON-XL-A 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.

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

800-456-9266

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| Advantages/Benefits | <ul style="list-style-type: none">• Aggressive 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 | NYCON-XL-A 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-XL-A. The addition of NYCON-XL-A at the normal recommended dosage rate (0.5-3 lb/cy) does not require any mix design or application changes. A water reducer or superplasticizer 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-XL-A does not affect the finishing characteristics of concrete. NYCON-XL-A can be used in power/hand troweled concrete, colored and broom finished concrete. NYCON-XL-A 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 | (50) 1 lb (0.45 kg) bags per box, 1000 lbs per pallet Nycon-XL-A Fibers are packaged in pre-measured 1 lb degradable “toss-in” paper beater bags or water soluble bags. |
| Storage and Shelf Life | NYCON-XL-A 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

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