

# NyconXL

The leading macro force in sustainable, structurally-enhanced concrete materials.



For long-term concrete durability, NyconXL macro fibers are the high-dose secondary reinforcement on which specifiers, ready-mixers, and precasters rely. They provide the sustainability and inner strength from within fiber-reinforced concrete like:

## Precastings

- Vaults and septic tanks
- Ducts and waterways
- Tilt-up walls, slabs, lids, roofs, and pipe
- Security & seismic barriers, bollards and planters

## Flatwork

- Industrial floor slabs
- Airport aprons and taxi-ways

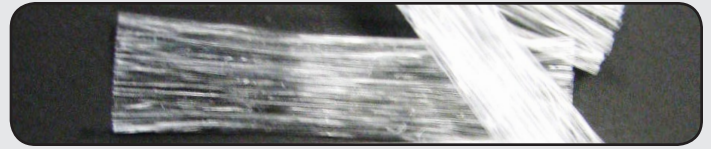
## Shotcreting

- Tunnel linings
- Slope stabilization

**800-456-9266**  
**www.nycon.com**

**NYCON**<sup>®</sup>  
REINFORCING FIBERS

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## Benefits of NyconXL Macro Fibers in Concrete:

Manufactured products, flatwork, and shotcrete reinforced with NyconXL fibers have enhanced structural properties, along with these desirable characteristics:

- Reduced bleeding and settlement
- Shortened curing cycle
- Greater early green strength
- High energy and impact absorption
- Improved resistance to plastic, thermal and moisture shrinkage cracking
- Superior fatigue, post-first-crack, and residual strength
- Less risk of implosion or catastrophic failure

## NyconXL Physical Properties:

<b>Materials</b>	Polyolefin/Polypropylene
<b>Configuration</b>	Collated Fibrillated
<b>Color</b>	White
<b>Specific Gravity</b>	0.91
<b>Length/Aspect Ratio</b>	1.5" (38mm)/45
	2.0" (50mm)/58
<b>Tensile Strength</b>	90,000 - 100,000 psi (620.7 - 689.7 MPa)
<b>Modulus of Elasticity</b>	> 400,000 psi
<b>Water Absorption</b>	None
<b>Chemical Stability</b>	Non-reactive

## Business Advantages in Using NyconXL:

At dosages of 3 pounds or greater per CY, NyconXL fibers improve concrete production, economy and your bottom line. They are an efficient secondary reinforcement solution that:

- Enhances concrete's structural integrity at lower doses than other synthetics.
- Eliminates the need for wire mesh and cages in casting molds.
- Minimizes precast material loss and rejects due to handling.
- Involves less handling, manpower, time, and cost than welded wire mesh.

## NyconXL Test Results

Dosage/CY	NyconXL
<b>3.0 lbs.</b>	141 psi
<b>4.0 lbs.</b>	194 psi
<b>5.0 lbs.</b>	212 psi
<b>6.0 lbs.</b>	290 psi

Test Method ASTM C1399

Post peak flexural strength test in psi

Stork Twin City Testing Project 325035

## The One Source for All Your Fiber-Reinforcing Needs

Concrete specifiers, producers and precasters have a choice of fiber-reinforcing solutions when they do business with Nycon. Along with NyconXL, we offer a complete line of fibers for concrete reinforcement, including nylon, "green", polypropylene, fiberglass, PVA, steel and synthetic/steel blends. And, to insure our solutions are utilized to best advantage, our engineering consultants assist specifiers in the design, specification, and production of Nycon-modified concrete. Call, fax, or visit us on the Web for more information.

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