

As a structural material, Nycon's reinforcing fibers allow concrete to withstand the forces of nature for decades. Now, with NyconG-PP fibers, concrete is kinder to nature than ever before. In addition to superior three-dimensional fiber reinforcement, NyconG-PP provides an environmentally sound choice for globally responsible, truly sustainable concrete construction.

Proven effective in countless concrete applications, NyconG-PP fibers are made from 100% recycled reclaimed polypropylene carpet. For years little has been done with carpet waste besides throwing it away. Today, thanks to an advanced patented technology (U.S. Patent #6,971,784, other US and foreign patents pending), Nycon "harvests" carpet waste, much like an agricultural asset. Carpet once taken to landfills is now a resource for producing our proprietary, high-value concrete reinforcing fibers. And more than just conserving landfill space, recycling carpet saves water and reduces carbon dioxide emissions that contribute to global warming.

Along with outstanding performance properties at reduced cost, NyconG-PP fibers provide a further incentive to "go green" : They facilitate the process of obtaining project certification by the U.S. Green Building Council's LEED Program, as well as provide tax credits to architects and owners.

"Green" is not a cliché and climate change is serious business. Everybody and everything can make a difference in the Green Revolution, and Nycon is committed to making a difference. We do this by reducing our reliance on scarce resources, extending the useful life of our reinforcing products-and now, with environmentally friendly NyconG-PP fibers, reducing energy use, greenhouse gas emissions, and landfill waste.

Synthetic Fibers Reduce Spalling During Fire

The addition of short monofilament polypropylene fibers to ready-mix concrete during mixing have the beneficial effect of reducing spalling during a fire. In a very severe fire, such as the recent Britain-to-France Channel Tunnel fire, conventionally reinforced concrete can suffer severe spalling that lead to failure. This failure is due in part to the pore moisture remaining within the concrete boiling explosively - and the steam pressure that is created then causes the severe spalling. The spalling control action of synthetic fibers within the concrete is due to their ability to quickly melt, forming pathways out through the concrete to nearer the surface, allowing the steam pressure to dissipate.

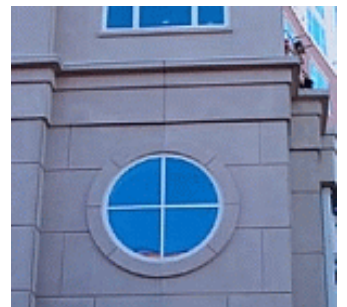
NyconG-Plus Physical Properties

Designed specifically for concrete reinforcement, NyconG-PP is a blend of fibers (.5" to micro length) and a carefully controlled percentage of calcium carbonate particles made from 100% reclaimed carpet. Both the fiber and backing from post-consumer and post-industrial carpet serve to produce NyconG-PP's high-performance concrete reinforcement. Fiber color is generally a light tan and will not affect performance or the aesthetics of finished concrete.

Production and packaging standards of NyconG-PP fibers adhere to strict quality control measures, including random testing to insure minimal environmental impact.

NyconG-Plus Performance Characteristics

- Three-dimensional, uniform reinforcement
- Reduced segregation in the mix
- Corrosion-free
- Virtually unnoticeable in finished products
- Satisfy AC32 requirements
- Overall improvement in concrete integrity and soundness





Performance Benefits of NyconG-PP Reinforced Concrete

- Reduced plastic and drying shrinkage cracking
- Improved tensile strength
- Increased compressive strength, impact resistance
- Improved alkaline resistance
- Improved fatigue crack-resistance
- Reduced strip and finishing time
- Overall improvement in concrete integrity and soundness

Business Advantages of NyconG-PP Reinforced Products

- Lower production costs
- Dramatic return on investment with reduced cement content
- Elimination of steel reinforcement saves labor, accelerates pour schedule, reduces injury
- Environmentally friendly
- Facilitates LEED certification
- Qualifies for tax credits
- Ideal for all ready-mix, site cast, precast, and shotcrete applications

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 NyconG-PP, we offer a complete line of fibers for concrete reinforcement, including nylon, polypropylene, fiberglass, 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.

For more information visit us on the web at www.nycon.com call toll-free 800.456.9266 or email us at nycon@nycon.com.

LEED (Leadership in Energy and Environmental Design) is a registered trademark of the U.S. Green Building Council.
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Helping you build smarter and better.™

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