

STRANDX™ – Specifically Engineered for SLABS-ON-GROUND & PRECAST

FABPRO POLYMERS'
STRANDX™
Synthetic Macro Fiber

DESCRIPTION

STRANDX™ Synthetic Macrob fibers are high tensile fibers manufactured from a blend of 100% virgin polyolefin resins. FABPRO's STRANDX™ Macro Fibers meet the requirements of ASTM C1116/C1116M "Standard Specification for Fiber-Reinforced Concrete".

APPLICATIONS

Recommended for use in:

- Precast concrete
- Thin-wall precast
- Composite metal decks
- Industrial and warehouse floors
- Pavements
- Residential and commercial slabs-on-ground
- Wall systems
- White-topping/overlays
- Shotcrete
- Tunnel linings

FEATURES

STRANDX™ Synthetic Macrob fibers are uniquely engineered for slab-on-ground and precast applications with higher tensile strength to provide better "Built-In Reinforcement" as a replacement for steel fibers, welded-wire fabric (WWF) and conventional reinforcing bars in a variety of secondary reinforcement applications. In addition, STRANDX™ Macro Fibers help to minimize temperature shrinkage cracking, plastic settlement and plastic shrinkage cracking. STRANDX™ Macro Fibers distribute uniformly throughout the concrete matrix and deliver excellent finishing characteristics.

BENEFITS

- Eliminates the need for WWF and rebar used as secondary reinforcement in most applications.
- Excellent temperature change reinforcement.
- Delivers tight crack control.
- Improves green strengths and permits earlier stripping of forms with less rejection.
- Reduces construction time, and overall labor and material costs.
- Increases flexural toughness, impact and abrasion resistance.
- Excellent finishing characteristics.

PERFORMANCE CHARACTERISTICS

	STRANDX™
Specific Gravity	0.92
Melting Point	320°F (160°C)
Ignition Point	1,094°F (590°C)
Absorption	Nil
Alkali Resistance	Excellent
Tensile Strength	87 ksi (600 MPa)
Modulus of Elasticity	930 ksi (6.4 GPa)
Fiber Length	2.25 Inches (57 mm)
Aspect Ratio	82
Fiber Count	22,750 fibers/lb (50,165 fibers/kg)
Chemical Resistance	Excellent
Finish Characteristics	Excellent





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MIXING

STRANDX™ Macro Fibers are packaged in pre-weighed, ready-to-use, degradable bags which are designed to be introduced at any time before or during mixing of concrete produced in accordance with procedures specified in ASTM C94/C94M.

ENGINEERING SPECIFICATIONS

STRANDX™ Synthetic Macro Fibers, when used at an appropriate dosage, are an excellent option for the replacement of WWF and rebar as a safe and easy-to-use reinforcing system. The fiber is rust proof, alkali resistant, and compliant with industry codes when used in concrete mixed in accordance with ASTM C94/C94M.

PACKAGING

STRANDX™ Fibers are packaged in compact, pre-weighed degradable 3 lb (1.36 kg), 4 lb (1.81 kg) and 5 lb (2.27 kg) and 7.5 lb. (15.53 kg) bags that can be added directly to the mixing system.

STORAGE AND HANDLING

Storage Temperature: STRANDX™ Synthetic Macro fiber should be stored at temperatures below 140°F (60°C). Avoid storing near strong oxidizers and avoid sources of ignition. Use caution when stacking to avoid unstable conditions. Store in a sprinkled warehouse.

RELATED DOCUMENTS

Safety Data Sheets: STRANDX™ Synthetic Macro Fibers

ADDITIONAL INFORMATION

For additional information on FABPRO's STRANDX™ Synthetic Macro Fibers, contact your local sales representative or Customer Service at (800) 821-4391.

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