

GENESIS™

XF FIBRILLATED FIBER



FABPRO™ Polymers' GENESIS™ XF

Fibrillated Synthetic Fiber

GENESIS™ XF Fibrillated Fibers are manufactured from virgin homopolymer polypropylene resins, and meet the requirements of ASTM C1116/C1116M “Standard Specification for Fiber-Reinforced Concrete”, and the requirements of ICC ES AC32 Section 3.1.1 for plastic shrinkage reinforcement and 3.1.2 for shrinkage and temperature reinforcement.

RECOMMENDED FOR USE IN:

- Residential and commercial slabs-on-ground
- Concrete pavement
- Whitetopping and overlays
- Marine elements
- Shotcrete
- Precast products
- Composite metal decks
- Stucco



FEATURES

GENESIS™ XF Fibrillated Fibers are specially engineered with a patented technology that enhances mechanical bonding with the mortar mix through a micro-reinforcing system. This system improves the residual strength by 26% compared to other leading fibrillated fiber products on the market today. The unique technology of GENESIS™ XF Fibers also provides excellent temperature shrinkage and plastic shrinkage crack control.

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BENEFITS

- Eliminates the need for WWF as a secondary form of reinforcement. Does not replace primary/structural reinforcement.
- Delivers tight crack control.
- Enhances long-term durability.
- Improves green strengths – permits earlier stripping of forms with less rejection.
- Reduces construction time and overall labor and material costs.
- Increases flexural toughness, impact and abrasion resistance.

PERFORMANCE CHARACTERISTICS

Specific Gravity	0.91
Melting Point	320°F (160°C)
Ignition Point	1,094°F (590°C)
Absorption	Nil
Alkali Resistance	Excellent
Tensile Strength	60,000 psi (415 MPa)
Length	0.25" (6 mm) – 1.5" (38 mm); plus a Bi-Blend
Aspect Ratio	29 for ¾" cut length
Chemical Resistance	Excellent
Modulus of Elasticity	900 ksi (6.2 GPa)

GUIDELINES FOR USE

DOSAGE: GENESIS™ XF Fibrillated Fibers are typically added at a dosage rate of 1.5 lb/yd³ (0.9 kg/m³). Different dosage rates may be appropriate depending on the application.

MIXING: GENESIS™ XF Fibrillated Fibers are packaged in premeasured, ready-to-use, degradable bags, designed to be introduced into the mix at any time before, during or after other ready-mixed concrete materials produced in accordance with procedures specified in ASTM C94/C94M.

Standard practices detailed in ACI 302 for placing, finishing and curing concrete should be followed when using GENESIS™ XF Fibrillated Fibers.

ENGINEERING SPECIFICATIONS

Use only GENESIS™ XF Fibrillated Fibers specifically engineered and manufactured for use in concrete as secondary reinforcement. GENESIS™ XF Fibers are for the control of cracking due to drying shrinkage, thermal expansion and contraction, lowered permeability, increased impact, shatter and abrasion resistance. GENESIS™ XF Fibers comply with applicable building codes and ASTM C1116/C1116M, Section 4.1.3, Type III. GENESIS™ XF Fibrillated Fibers should be specified for use in precast and slab-on-ground concrete:

- To enhance post cure residual strength, toughness and durability
- To enhance post, first-crack performance
- To reduce chipping, cracking & breakage
- To reduce handling & transportation stresses
- To reduce de-molding and stripping issues
- To increase impact & abrasion resistance

FABPRO POLYMERS' GENESIS™ XF fibers are not intended to be used as a replacement for structural reinforcement.

STORAGE AND HANDLING: GENESIS™ XF Fibrillated Fibers 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.

PACKAGING: GENESIS™ XF Fibrillated Fibers are available in a variety of packaging options. Standard bag size is 1.5 lbs (0.68 kg). Bags are packaged in ultra-durable boxes, palletized, and stretch-wrapped with corner boards to prevent damage from shipping and handling.

SAFETY DATA SHEETS: GENESIS™ XF Fibrillated Fibers

For additional product information, contact your local sales representative or Customer Service at (800) 821-4391.



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