

ProFiber®-S

Structural Fibers For Concrete

ProFiber®-S fibers are the ultimate three-dimensional secondary reinforcement for your precast or ready mix concrete work. **ProFiber®-S** Fibers will provide convenience and cost savings for your next project, outperforming both steel fibers and traditional welded wire fabric.

DESCRIPTION

ProFiber®-S fibers are widely used in industrial, commercial and residential applications as secondary reinforcement in ready mix concrete to enhance toughness and provide additional post-crack integrity. **ProFiber®-S** fibers are especially effective in precast applications, where enhanced durability and toughness is needed. **ProFiber®-S** fibers control plastic shrinkage and settlement cracking inherent to unreinforced concrete, in addition to preventing cracks in hardened concrete. **ProFiber®-S** Fibers are manufactured from 100% olefin materials. Unless otherwise specified, application rate shall be 3.0 - 5.0 lbs. per cubic yard. **ProFiber®-S** Fiber complies with ASTM C1116 Type III, 4.1.3 and has been tested in accordance with ASTM-C1399.

PHYSICAL PROPERTIES

Material:	100% polyolefin
Absorption:	Nil
Specific Gravity:	0.93
	Acid & Salt Resistance: Excellent
Tensile Strength:	7.0 grams per denier
UV Resistance:	High
Elongation:	8% - 9.5%
Fiber Lengths:	1-1/2"
Melting Point:	160C
	Water Absorption: Negligible
Alkali Resistance:	Excellent
Electrical Conductivity:	Low

APPROVALS

Aspect Ratio: 84
 Denier: 3000
 Conforms to: ASTM C1116, Type III, 4.1.3 and meets ANSI / UL 263, ASTM E119 for fire resistance

ASTM C-1399 results

Dosage	Average Residual Strength (ARS)
4.0 lbs/yd ³	191 PSI (1.32 Mpa)
5.0 lbs/yd ³	255 PSI (1.76 Mpa)

RECOMMENDED DOSAGE RATE

ProFiber®-S Fiber should be added at a dosage rate of 3.0 - 5.0 lbs. per cubic yard of concrete, unless otherwise specified. **ProFiber®-S** Fiber is packaged in pre-measured water-soluble bags that can be added directly to the mix.



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INSTRUCTIONS FOR USE

ProFiber®-S Fibers may be added to the concrete at any time before, during or after the batching process. Because of the higher dosages of **ProFiber®-S** fibers, mixing at high speed for a minimum of 8 minutes is recommended. In ready-mix applications, fibers must be mixed in accordance with ASTM C-94, "Standard Specifications for Ready-Mixed Concrete".

PLACEMENT AND FINISHING

Placement and finishing techniques are no different for concrete containing **ProFiber®-S** Fibers than for plain concrete. It is strongly recommended that no additional mix water be added.

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