

# ProFiber®- S

## Structural Fibers for Concrete

### DESCRIPTION:

**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.

**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 E  
Longation: 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<sup>3</sup> 191 PSI (1.32 Mpa)  
5.0 lbs/yd<sup>3</sup> 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.

### 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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