

# 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  
 Denier: 3000  
 Absorption: None  
 Specific Gravity: 0.91  
 Alkali, Salt, and Acid Resistance: High  
 Melting Point: 320°F (160°C)  
 Electrical Conductivity: Low  
 Tensile Strength: 71.5ksi (493 MPa)  
 Aspect Ratio: 100  
 Standard Length: 1.5 in  
 UV Resistance: High E  
 Modulus of Elasticity: 800 ksi  
 Longation: 8% - 9.5%  
 Water Absorption: Negligible

### APPROVALS AND GENERAL SPECIFICATION:

Conforms to:

ASTM C1116: Section 4.1.3 Type III and Note 2  
 ASTM D7508,  
 ASTM E119 for fire resistance

**ProFiber®-S** is listed by UL in CBXQ.R19202 (Fiber Reinforcement and Concrete Additives) for use as an alternate or in addition to the welded wire fabric used in Floor-Ceiling Design No. D700, D800, and D900.

ANSI/SDI C-2017 - Shrinkage and temperature reinforcement alternative to welded wire reinforcing.

### **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.



# ProFiber®- S

## Structural Fibers for Concrete

Premiere Concrete Admixtures warrants its products to be free from defects in material and manufacture. There are no other warranties by Premiere Concrete Admixtures of any nature whatsoever, expressed or implied. This information is based on data and knowledge believed to be true and accurate at time of publication and is offered as a resource for the users of our products. Premiere Concrete Admixtures assumes no liability in the use of this information and does not warranty the results obtained for any application. Premiere Concrete Admixtures shall not be liable for damages of any sort, the use or results of this product and shall not be responsible for conditions outside its control, including but not limited to, other materials, design, inspection, workmanship and field conditions. No statement, recommendation, or other information is intended to infringe on any patent or copyright held by others.

