

# SPECTER FIBER

## PRODUCT SPECIFICATION GUIDE

### PRODUCT DESCRIPTION:

SPECTER™ Monofilament Concrete Fibers are manufactured from 100% homopolymer, virgin polypropylene resin, containing no reprocessed olefin materials, and in compliance with ASTM C-1116 "Standard specification for fiber-reinforced concrete and shotcrete". SPECTER Concrete Fibers are specifically engineered for use in concrete as secondary reinforcement and for the purpose of controlling plastic shrinkage and settlement cracking.

SPECTER Concrete Fibers comply with the requirements as defined in the 1997 Uniform Building Code - ICBO, and in the National Building Code - SBCCI.

### PRODUCT BENEFITS:

- . Excellent finishability
- . Always positioned properly, providing multi-dimensional reinforcement
- . Reduces the formation of plastic shrinkage cracking in concrete
- . Improves impact, shatter, and abrasion resistance
- . Enhanced durability and toughness
- . Reduces permeability

### PHYSICAL PROPERTIES:

Specific Gravity .....	0.91	Ignition Point .....	1094o F (590o C)
Melt Point .....	320o F (160o C)	Absorption .....	Nil
Modulus of Elasticity .....	500 ksi	Chemical & Alkali Resistance .....	Excellent

Available Fiber Cut Lengths: ½", ¾", 1½", and blends

### PRODUCT APPROVALS:

1. ICBO Evaluation Service, Inc. ....Report #ER-5359
2. SBCCI Public Safety & Evaluation Services, Inc. ....Report #9505 F
3. Manufactured to UL Specifications for Floor-Ceiling Assembly Fire Classifications:  
Underwriters Laboratories (UL) on Series D700 and D800 Metal Desk Assemblies  
.....File #R20804
4. Manufactured to ASTM Requirements .....ASTM C-1116 Type 111 4.1.3

### MANUFACTURER'S RECOMMENDATIONS:

SPECTER™ Monofilament Concrete Fibers should be added at a dosage rate of 0.1% by volume, unless otherwise specified.

SPECTER Concrete Fibers are packaged in premeasured, ready-for-concrete, degradable bags, designed to be introduced into the mix at any time before, during, or after the ready-mixed concrete. The manufacturer recommends proper mixing procedure as specified in ASTM C 94.

DOSAGE RATES: Monofilament fibers, 7 dpf 1.0 lb./yd3 > (0.6kg/m3>)

#### PLACEMENT AND FINISHING:

The manufacturer recommends that the standard practices detailed in ACI 302 for placing, finishing, and curing concrete be followed when using SPECTER Concrete Fibers.

The manufacturer hopes the information given herein is helpful. All information is based on test data and knowledge considered to be true and accurate, and is offered for the user's consideration, investigation, and verification. No warranty is expressed or implied regarding the results to be obtained from the use thereof. Each user must determine the suitability of the product for his own particular application.

### ARCHITECTURAL SPECIFICATION (Mini Spec):

Use only nylon fibers specifically engineered and manufactured for use in concrete as secondary reinforcement (NYLON).

Fibers are for the control of cracking due to drying shrinkage, thermal expansion and contraction, lowered permeability, increased impact, abrasion, and shatter resistance. Fiber manufacturer must be in compliance with applicable building codes and ASTM C-1116 Type III, 4.1.3 as manufactured by Polymer Group, Inc., 701 E. Avenue A, Kingman, Kansas, USA, 67068.

### WARRANTY AND LIMITATION OF LIABILITY:

Product sold hereunder is of merchantable quality and conforms to seller's standards and specifications. Seller's sole liability for claim shall be limited to replacement of defective or nonconforming product. In no event shall seller be liable for any special, incidental, consequential, or exemplary damages.

Manufactured by PGI Performance Concrete Fibers & Distributed by Brett Admixtures