

# BAXI-FIBER P400

## POLYOLEFIN SYNTHETIC STRUCTURAL MACROFIBERS

### Product Description:

**BAXI-FIBER P400** synthetic structural macrofibers system are manufactured from 100% virgin polyolefin and polypropylene resin, containing no reprocessed materials and in compliance with ASTM C-1116 "Standard specification for fiber-reinforced concrete and shotcrete".

**BAXI-FIBER P400** is specifically engineered for use in concrete providing three dimensional reinforcing ,enhancing toughness ( post-crack energy absorption ), impact and fatigue resistance and adding superior plastic shrinkage cracking control.

**BAXI-FIBER P400** performs as defined in the ASTM C1399 "Test Method for Obtaining Average Residual-Strength for Fiber Reinforced Concrete" with an average residual strength (ARS) of **255 psi**, based on a five specimen test, and using a dosage rate of 5.0 lb/yd<sup>3</sup> ( 2.97 kg/m<sup>3</sup> ).

### Advantages:

**BAXI-FIBER P400** substantially reduce the formation of plastic shrinkage cracks, by increasing the tensile capacity of plastic concrete. Eliminates welded wire mesh reinforcement. It has excellent dispersion, pumpability and no corrosion, high bond strength to the cement matrix and easy addition. It also reduces permeability and increases impact resistance and flexural toughness.

**BAXI-FIBER P400** combines strength with excellent resistance to alkali and chemical attack, and is compatible with other ad-mixtures as superplasticizers.

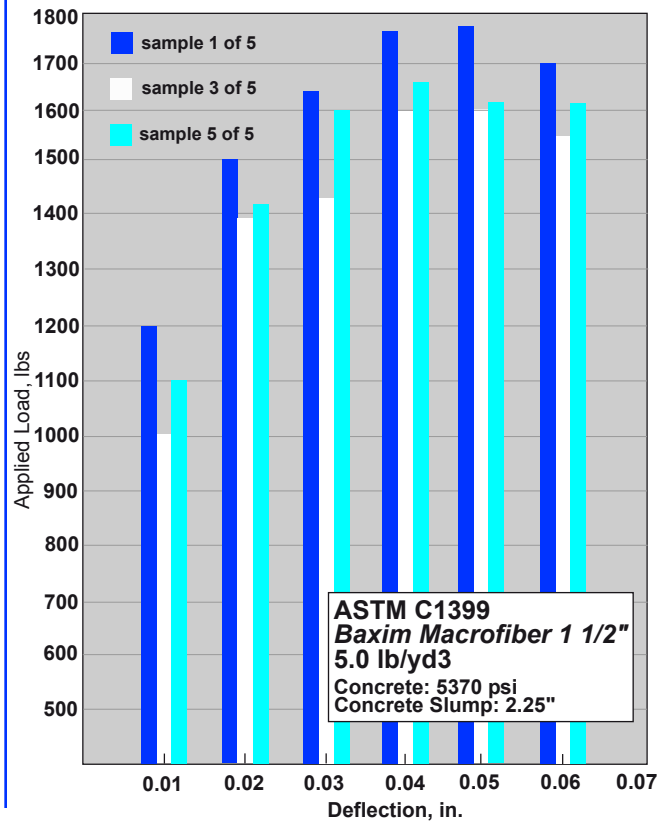


### Physical Properties:

Specific Gravity .....	0.91
Color .....	Clear
Cut Length .....	38 mm
Tensile Strength .....	75-79 ksi
Melting Point, C .....	165°C
Water Absorption .....	0%
Chemical Resistance .....	Excellent
Alkali Resistance .....	Excellent
Heat Conductivity .....	Low
Electrical Conductivity .....	Low
Recommended Dosage .....	4 - 5 lbs. per cubic yard

### Performance in Concrete:

The flexural toughness of **BAXI-FIBER P400** has been evaluated by ASTM C1399 ( 4" beams ), performing with an average residual strength (ARS) of **191 psi** ( 1.32 Mpa ), with a dosage of 4.0 lbs/yd<sup>3</sup> ( 2.37 kg/m<sup>3</sup> ),and average residual strength (ARS) of **255 psi** ( 1.76 Mpa ), with dosage of 5.0 lbs/yd<sup>3</sup> ( 2.97 kg/m<sup>3</sup> ).



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**BAXIM®**  
TECNOLOGIA PARA LA CONSTRUCCION

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### Typical Uses:

- Shotcrete slope stabilization
- Slab-on-ground flooring
- Industrial floors
- Pre-cast cement pipes, manholes and others
- Blast Resistance Structures
- Overlays , Toppings
- Retaining Barriers  
and many...

### Manufacturer Recomendations:

**BAXI-FIBER P400** addition rates will vary depending of the specific application and the specific toughness requirements from 4 lbs./yd<sup>3</sup> up to 15 lbs./yd<sup>3</sup>

**BAXI-FIBER P400** 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. Baxim recommends proper mixing procedures as specified in ASTM C 94.

### SLUMP LOSS:

Adding dosage of 4 lbs./yd<sup>3</sup> and higher might result in a slump loss. The use of superplasticizers will be necessary to maintain slump and workability, and will not affect the performance of the fiber.

### PLACEMENT AND FINISHING:

Baxim recommends that the standard practices detailed in ACI 302 for placing, finishing and curing concrete be followed when using **BAXI-FIBER P400**.

Baxim 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(s) for their own particular application.

### 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.

