

MATRIX FIBRILLATED FIBERS

SPEC DATA SHEET



PRODUCT DESCRIPTION:

MATRIX fibrillated fibers are manufactured from 100% homopolymer, virgin polypropylene resin, containing no reprocessed olefin materials, and in compliance with ASTM C-1116-97 “Standard specification for fiber-reinforced concrete and shotcrete.”

FRC Fibers are specifically engineered for use in concrete as secondary reinforcement, and for the purpose of controlling plastic shrinkage and settlement cracking.

FRC Fibers comply with requirements as defined in the 1997 Uniform Building Code – ICBO, and in the National Building Code – SBCCI.

PRODUCT BENEFITS:

- Always positioned properly – providing multi-dimensional reinforcement
- Reduces the formation of plastic shrinkage cracking in concrete
- Approved alternative method to Welded Wire Fabric, when used as secondary reinforcement in plain concrete slabs on grade
- Improves impact, shatter, and abrasion resistance
- Enhanced durability and toughness
- Reduces permeability

PHYSICAL PROPERTIES:

Specific Gravity	0.91	Ignition Point	590° C
Tensile Strength (Genesis).....	70 – 110 ksi	Melt Point	160° C
Modulus of Elasticity	500 ksi	Absorption.....	Nil
Chemical Resistance	Excellent	Alkali Resistance	Excellent

Fiber Cut Length: 3/4”

- ◆ Manufactured to the requirements of:.....ASTM C-1116-97 Type III 4.1.3

MANUFACTURER’S RECOMMENDATIONS:

FRC synthetic fibers should be added at a dosage rate of 0.1% by volume, unless otherwise specified. MATRIX Fibers are packaged in pre-measured, ready for concrete, water soluble bags – designed to be introduced into the mix at any time before, during, or after the Ready-Mixed Concrete. FRC recommends proper mixing procedures as specified in ASTM C94.

DOSAGE RATES:

MATRIX Collated, fibrillated fibers.....1.0—1.5 lbs. Per yd³ (0.9 kg m³)

PLACEMENT and FINISHING:

FRC recommends that the standard practices detailed in ACI 302 for placing, finishing, and curing concrete be followed when using synthetic fiber-reinforced concrete.

FRC 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.

FIBER MINI SPECIFICATION:

1. Use only 100% virgin fibrillated polypropylene fibers containing no reprocessed olefin materials and specifically engineered and manufactured for use in concrete as secondary reinforcement. MATRIX **Fibrillated** Fibers as manufactured by FRC INDUSTRIES.

Fibers are for the control of cracking due to drying shrinkage and thermal expansion and contraction of the concrete, 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. Contact *FRC INDUSTRIES, P.O. Box 458 * Freeport, FL 32439 * 888-783-2517 * email: engineering@frcindustries.com*

WARRANTY AND LIMITATION OF LIABILITY:

Product sold herein is of merchantable quality 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.