



Concrete Admixtures and Fiber

## IMIFIBER-FP

Fibrillated Polypropylene Fiber for Concrete

### DESCRIPTION

IMIFIBER-FP are collated fiber made from 100% virgin polypropylene. They are alkali resistant, non-absorptive and non-corrosive. Their use provides secondary reinforcement and protects concrete from stresses which cause cracking while it is most vulnerable during the first 24 hours after placement. They are available in ¾" (19 mm) length.

### USES

IMIFIBER-FP fiber are accepted as an alternate to the requirement of 0.029 square inches steel reinforcement per lineal foot in non structural slabs placed directly on the supporting soil as detailed in subsection 2404.4(b)(1) of the South Florida Building Code. All other requirements in subsection 2404 (slab thickness, compaction, quality of soil, etc.) shall be observed.

Where a concrete slab is supported by a foundation wall or continuous footing, adequate steel reinforcing shall be designed by the engineer or architect of record. Eccentric foundations that depend on the concrete slab to balance the eccentricity shall also have adequate steel reinforcing designed by the registered architect or engineer of record who is proficient in structural design.

### APPLICATION

IMIFIBER-FP fiber may be added to the concrete at any point during the batching or mixing process. The load must be mixed at high speed for 5 minutes, or 70 revolutions, after the addition of the IMIFIBER-FP to ensure uniform distribution. The standard range of addition of fibers is 1.5 lbs. to 3.0 lbs per cubic yard of concrete (900gm to 1.8 kgm per cubic meter of concrete). IMIFIBER-FP dosage rate shall not be less than 1-1/2 lbs. per cubic yard of concrete, in order to comply with the requirements of section 2404.4(b)1 of the South Florida Building Code.

The batch or load ticket shall indicate the amount of IMIFIBER-FP added to the mix and shall be available to the inspector upon request.

## INTERNATIONAL MATERIALS INDUSTRIES, L.L.C.

2800 N. Johnson St\*New Orleans, Louisiana 70117 \* PHONE: (504) 267-3344 \* Fax: (504) 267-3345

The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability, nothing herein shall constitute a warranty, express or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.

## TECHNICAL INFORMATION

### RESULTS OF TESTS USING IMIFIBER-FP

Flexural	590 psi	630 psi	107	Greater Than / Equal To Control
Compression	4260 psi	4300 psi	101	Greater Than / Equal To Control
Freeze/Thaw Durability	86.00%	87.50%	103	Greater Than / Equal To Control
Formation of Cracks	-	-	55.8 (reduction)	Min. 40%
Bond Strength	19,470 lbs	20,410 lbs	105	Greater Than / Equal To Control

\* ICBO -

International Conference of Building Officials

### LIMITATIONS

The use of IMIFIBER-FP fiber shall be clearly indicated in the “approved drawings” and must be approved by the architect or engineer of record. IMIFIBER-FP may be used in lieu of the steel mesh for controlling shrinkage cracking and is not intended to furnish structural strength or substitute steel reinforcing required to resist computed tensile stresses.