



## Concrete Admixtures and Fiber

# IMIFIBER

Monofilament Generic Fiber for Concrete and Mortar

### DESCRIPTION

**IMIFIBER** is a fiber made from highly processed monofilament fiber specifically for use in concrete and cement based products. **IMIFIBER** fibers provide multi-dimensional secondary reinforcement, which is uniformly distributed throughout the concrete mix. **IMIFIBER** aids in achieving optimum strength and durability as well as eliminating 68% to 100% of plastic shrinkage cracks in concrete.

### ADVANTAGES

- Controls surface cracks due to plastic shrinkage
- Reduces permeability
- Resistant to impact stress
- Prevents mildew
- Economical to use
- Provides secondary, multi-dimensional reinforcement
- Replaces welded steel reinforcing

### USES

- Roofs
- Tiles on Slopes
- Pools
- Patios
- Precast Concrete
- Parking Lots
- Industrial Floors
- Pumped Concrete
- Tanks
- Bridges
- Tunnels
- Ramps
- Offices
- Sidewalks
- Cellular Concrete
- And Many Others...

### APPLICATION

**IMIFIBER** comes packaged in water-soluble bags, and is used at the rate of 1 lb. per cubic yard of concrete (1.3 Lb. per cubic meter of concrete). It can be added to the concrete at the plant during the batching process or in the field, mixing for 4 to 5 additional minutes. We recommend adding **IMIFIBER** at the plant to avoid loss of slump and other problems brought on by excessive mixing.

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

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## TECHNICAL INFORMATION

IMIFIBER controls the formation of cracks due to plastic shrinkage and increases flexural strength while the mix is still in its plastic state. This eliminates the formation of wider cracks, which normally form during the time of plastic shrinkage. The fibers are distributed evenly, creating a matrix, which under direct or flexural stress transforms a sudden brittle rupture into a ductile slow rupture. The absence of these wider fissures in the tension zone of concrete reinforced with fibers enhances its resistance to rupture.

IMIFIBER fibers are available in pre-measured “ready for concrete” degradable bags, delivering 10’s of millions of fibers evenly throughout the concrete.

### **Physical Properties:**

Specific Gravity	1.18
Denier	12-15 dpf
Tensile Strength	40ksi
Melting Point	Does not melt Sticks @ 450°F
Color	Natural

## PACKEGING

Standard cut  $\frac{3}{4}$  in. in a degradable bag of 1 lbs (450 grams) or 5 lbs (2.25 kg).