



Concrete Admixtures and Fiber

## IMIFIBER-Paver

Acrylic Asphalt Paving Fiber

### DESCRIPTION

IMIIFIBER-Paver are 100% pure Acrylic fiber, ¼ inch (6 mm) in length which provides reinforcement for asphaltic materials. IMIFIBER-Paver aids in achieving optimum elasticity and durability. The fibers are uniform and multi-dimensional when mixed into asphalt. IMIFIBER-Paver fiber are specifically designed for use in asphalt and asphalt products.

### USES

- Pavements
- Intersections
- Ramps
- Sidewalks
- Parking lots
- Joint Sealants

### ADVANTAGES

The use of IMIFIBER-Paver in asphalt has various advantages that give prolonged durability to the pavements made with asphalt. IMIFIBER-Paver imparts the elasticity necessary to the asphalt, to prevent the cracks that are shown during frequent temperature changes and wetting and drying that also contribute to cracks. Also, the longitudinal cracks caused by lateral stresses of the base of the roadway. Furthermore, there is the advantage when making small repairs, not to have the aggregates coming loose easily.

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

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## TECHNICAL INFORMATION

IMIFIBER-Paver complies with the specifications of the State of Ohio Department of Transportation supplemental Specification S25 crack sealing, hot applied of October 2, 1989. These specifications are the standard for the asphaltic materials in all the U.S.A., while the mix is still in its plastic state.

The Fiber is distributed evenly, creating a matrix, which under direct or flexural stress transforms a soft brittle rupture into a ductile slow rupture. The absence of these wider fissures in the tension zone of concrete reinforced with fiber enhances its resistance to rupture.

## RESULTS OF TESTS USING : IMIFIBER-Paver

Flexural	630PSI	690 PSI	110
Compression	4320PSI	4380PSI	101
Freeze/Thaw Durability	86.00%	87.10%	101
Formation of Cracks	-	-	75.6(Reduction)
Bond Strength	14,870 Lbs.	15,520 Lbs.	104

\* ICBO - International Conference of Building Officials

## IMIFIBER-Paver PHYSICAL PROPERTIES

- *Chemical Family* Acrylic Fiber
- *Type of Filament* Monofilament
- *Specific Gravity* 1.34
- *Denier* 6.1 dpf (ASTM D1577)
- *Tensile Strength* 77.255 (ASTM D2256)
- *Fiber Length* Normally 6 mm
- *Melting Temperature* Will not Melt
- *Moisture Regain* 0.2% (ASTM D2654-76)
- *Crimp* None (ASTM D3987-82)
- *Color* Natural
- *Cross Section* Round
- *Elongation At Break* 32% ± 2%Low
- *Diameter* 0.0012 in.
- *Hot Air Shrinkage* 15% Maximum @ 325° F for 30 Min.