



Concrete Admixtures and Fiber

MEGAFIBER

Ultimate Three-Dimensional Secondary Reinforcement

DESCRIPTION

MEGAFIBER is a unique type of synthetic fiber derived from proprietary formulas. It is highly processed and designed specifically as a reinforcement for concrete used in concrete pipe manufacturing, precast concrete panels and the walls of concrete tanks (septic tanks). MEGAFIBER provides qualities which are not generally common in other synthetic fiber products. It offers high flexural strength, high modulus of elasticity, resistance to acids, alkali, abrasion, and UV rays.

USES

- As a replacement for welded steel mesh used in the fabrication of concrete pipes.
- As a replacement for welded steel mesh used in precast concrete panels
- As the main reinforcement for walls of precast concrete tanks such as septic tanks.

ADVANTAGES

- Reduces costs of labor and raw materials
- Reduces cracking in finished products
- Reduces permeability of finished products
- Increases impact resistance
- Increases resistance to wear and tear
- High Tenacity
- High modulus of elasticity
- Resistant to acids
- Resistant to alkali
- Resistant to UV rays

INTERNATIONAL MATERIALS INDUSTRIES, L.L.C.

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

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TECHNICAL INFORMATION

Physical Properties

PHYSICAL PROPERTIES

Materials	100% polyolefin	Absortion	Negligible
Specific Gravity	.91	Acid & Salt Resistance	Excellent
Tensile Strength	70 ksi avg	UV Resistance	High
Melting Point	330 degrees F	Water Absorption	Negligible
Resistance to UV Rays	High	Elect. Conductivity	Low
Alkali Resistance	Excellent	Denier	3000
Aspect Ratio	84	Color	Grey

APPROVALS

Conforms to: ASTM C1116, Type III, 4.1.3
ASTM C-1399 results at 4 lb. dosage 124 psi

APPLICATION

MEGAFIBER is dosed at a rate of 3 Lbs. to 11 Lbs. per cubic yard. (4.0 to 6.5 Kilograms per cubic meter). The cut length of the fiber is from 1.5 inches to 2.0 inches (38mm to 50mm).

Because the residual strength increases as the dosage of MEGAFIBER increases, it is obvious that in the production of concrete pipes, the dosage of MEGAFIBER can be increase as the diameter of the pipe increases to achieve the best results.

MEGAFIBER may be added to the concrete at any time before, during or after the batching process. Because of the higher dosages of MEGAFIBER , mixing at high speed for a minimum of 8 minutes is recommended. In ready-mix applications, fiber must be mixed in accordance with ASTM C-94, "Standard Specifications for Ready Mixed Concrete"

PLACEMENT AND FINISHING

Placement and finishing techniques are no different for concrete containing MEGAFIBER Fibers than for plain concrete. It is strongly recommended that no additional mix water be added.

PACKAGING

MEGAFIBER is packaged in 4.0 Lb. bags (1.8 kg.), 5.0 Lb. bags (2.25 Kg.) or in gaylords of 300 Lbs. (136 kg.) each.