

### PRODUCT DESCRIPTION

MFL™ is macro synthetic reinforcing fiber manufactured to an optimum gradation and highly oriented to allow greater surface area contact within the concrete resulting in increased interfacial bonding and flexural toughness efficiency. It specifically engineered for use as secondary reinforcement of concrete. The macro synthetic fibers infuse the concrete with added levels of toughness, energy absorption and durability. In addition, macro-synthetic reinforcing fibers provide an added measure of crack control without the risk of corrosion associated with steel.

### PRODUCT FEATURES

- Increasing the tensile, flexural and shear strength of concrete
- Provides impact, abrasion and shatter resistance
- Greater surface area provides increased flexural toughness
- Control of drying shrinkage and temperature cracking
- Graded macro-synthetic fiber for concrete reinforcement used as an alternate to welded wire fabric, light rebar and steel fibers.
- Improves residual strength of concrete.
- Improves impact, shatter and abrasion resistance of concrete.
- Enhances durability and toughness of concrete.
- Simple and flexible application (also overhead)

### PRODUCT USES

- Industrial and warehouse floors
- Residential and commercial slab on grade
- Driveways and side walks
- White toppings and overlays
- Composite metal decks and parking structures
- Septic tanks, manholes and burial vaults
- Shotcrete applications
- Slope stabilization
- Precast concrete

### TECHNICAL DATA

Material	Polypropylene copolymer
Color	White - Gray
Avg. Length	30,40,50 mm
Fiber's diameter	Different
Special Weight	0.95 g/cm <sup>3</sup>
Water absorption	Nearly zero
Alkali/Acid resistance	Good
Storage Temperature	5°C to 40°C
Shelf life	2 years

### HOW TO USE

#### DOSAGE

Standard recommended dosage rate of MFL™ is between 1-4 kg/m<sup>3</sup> of concrete or as required by specific mix design.



Macro-Synthetic Reinforcing Fiber- MFL™

### MIXING

MFL™ can be added directly to the concrete mixing system (pumped, sprayed or placed using conventional equipment), during or after the batching of the ingredients and mixed at high speed for four to five minutes. Additional mixing does not adversely affect the distribution or overall performance of macro synthetic reinforcing fiber.

### HANDLING

Approved personal protection equipment should be worn at all times. Particle mask is recommended for possible airborne particles. Gloves are recommended when handling mortar to avoid skin irritation. Safety glasses are recommended to prevent eye irritation. Wear chemical resistant clothing/gloves/goggles. Ventilate area. In absence of adequate ventilation, use properly fitted respirator.

### STORAGE

Keep the macro synthetic reinforcing fiber in a dry place away from sources of heat in an original pack. Store in temperature between 5°C to 40°C.

### DISCLAIMER OF LIABILITY

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within 7 days of the date of purchase.

AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.