for Better Quality & Durability

POLYRPOPYLENE (PP) MACROFIBER CPPMF

CETEX® Macrofiber is a structural macrofiber made of 100% virgin polypropylene, which has been thermally, chemically and mechanically processed to uniformly distribute in the cementetious mortar and provide a highly effective three-dimensional concrete reinforcement system. It conforms to ASTM C 1116/C 1116M "Standard Specification for Fiber-Reinforced Concrete"

USES

- σ Commercial slab construction
- σ Industrial and warehouse slab & floors
- σ Precast concrete, Hard-troweled concrete
- σ prefabricated septic tanks and sewage holding tanks
- σ Residential and commercial slabs-on-ground
- σ Concrete pavements, white-topping and overlays
- σ Composite metal decks
- σ Concrete Pavements,
- σ Shotcrete
- σ Bridge decks
- σ Thin-wall precast
- σ Tunnel linings
- σ Wall systems
- σ Architectural panels
- σ Cast-in-place and wet precast concrete

PHYSICAL PROPERTIES

Material : 100% Virgin Polypropylene (PP)
Length (L) : 36-60mm
Aspect ratio (L/D) : **120 +/- 80** (approx.)
Specific Gravity : 0.9 – 0.91
Thermal & Electric : Low Conductivity
Acid & Salt Resistance : High

Colour : White
Diameter (D) : **0.6mm** +/- 0.3 (approx.)
Melt Point : 160 -165OC
Tensile Strength : 500+/- 100
Alkali Resistance : 100% Alkali Proof
Absorption of Water : Nil

BENEFITS

- Cheaper, more environmentally friendly and lighter than steel reinforcements.
- Uniform distribution throughout the concrete matrix
- Enhanced aesthetics and eliminates the potential for rust stains
- Excellent finishability Enhances durability
- Reduces Initial Crack formation
- Eliminates the need for welded-wire reinforcement (WWR) and conventional steel bars as secondary reinforcement, depending on the application
- Minimises thne crack formation
- Provides plastic shrinkage crack reduction and settlement control
- Customised macrofiber with Aspect Ratio ranging from 40 to 250
- Use as secondary reinforcement to control shrinkage and temperature cracking and to provide performance equivalent to that of other commercially available synthetic macrofibers, at a reduced dosage.
- Imcrease initial strength of concrete hence faster demoulding of form work
- Reduces construction time and overall labor and material costs
- Increases flexural toughness, impact and shatter resistance
- Reduces carbon footprint compared to convetional steel reinforcement

DOSAGE

It is recommended to optimize the dosage depending on the requirement.

Note: The addition of fibers to a given mix may appear to decrease the slump. The workability, however, will not be affected and additional water should not be added