

ConFib Macro-48



PRODUCT DESCRIPTION

Macro-48 are synthetic macro fibers with high tensile strength and elasticity modulus, used for primary reinforcing for concrete. Macro-48 add toughness, impact and fatigue resistance to concrete and improve residual strength and durability of concrete through its multidimensional and homogeneous distribution in the concrete. Specifically engineered to provide post-crack control performance.

ADVANTAGES

- Can be used as primary reinforcement in concrete instead of steel mesh and steel wires.
- Saves money through reduction of application time and labor cost.
- Improves jobsite safety by eliminating the handling of steel mesh and rebar.
- Provides superior crack control and minimizes shrinkage and settlement cracks.
- Increase durability of concrete and extends concrete service life.
- Reduces permeability and increases freeze-thaw resistance.
- Reduces rebound problem on shotcrete applications.

PACKAGING

- ConFib Macro Fibers are packaged in 1,5 kilograms of water-soluble papers.

APPLICATION AREAS

- Slabs on ground
- Shotcrete applications
- Composite steel floor decks
- Precast and prefabric applications
- Cement-based composites
- Tunnel applications
- Concrete roads and under rail concrete
- Coastal structures

GENERAL SPECIFICATIONS

ConFib Macro-48 is engineered from 100% virgin polypropylene, precisely designed to enhance concrete performance as primary reinforcement. Through this, Macro-48 can be used instead of steel mesh and steel fiber the risk of cracking within concrete. Besides, effectively minimize due to plastic shrinkage and settlement by creating a network system in concrete.

MIXING AND RECOMMENDED DOSAGE

- Standard recommended dosage rate of ConFib Macro-48 is between 2-6 kg/m³ of concrete.
- ConFib Macro-48 may be added to concrete at batching plant or in truck mixer on construction site. Each packet should be added to the mixer at 20-30 second intervals. The concrete should be mixed for 5 minutes after the addition of the last package of fibers to ensure uniform distribution.

ConFib Microsynthetic Fiber

Technical Informations

FIBER SPECIFICATION	
Standard	ASTM C1116/C1116M, EN 14889-2
Raw Material	Polipropilen
Colour	Naturel
Density	0,91 g/cm ³
Product Form	Tape Fiber
Product Name	Macro-48
Length	48 mm
Equivalent Diameter	0,46 mm
Aspect Ratio	104
Tensile Strength	550-600 MPa
Modulus of Elasticity	10 GPa
Elongation	6-8%
Fiber Quantity / Kg	> 150.000
Ignition Point	340 °C
Melting Point	140 °C
Alkali Resistance	High
Acid and Salt Resistance	High
Thermal Conductivity	High
Electrical Conductivity	Low
UV Resistance	High
Water Absorption	None

This informations are provided as guide of utilization for only under certain and controlled conditions. Before using the ConFib products, user should always read the instructions and follow the warnings regarding the product and safety informations. It is recommended that, user should consult to the authorities and use professional services to determine the suitability of the product in any project or application before commercial use.