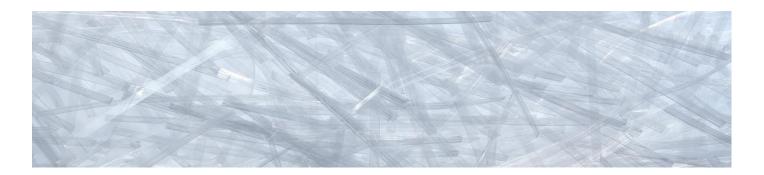




## ConFib Macro-48



#### 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 bu 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 freze-thaw resistance.
- Reduces rebound problem on shotcere applications.

#### **PACKAGING**

 ConFib Micro 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 <sup>3</sup>        |  |
| 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.