



## Technical Data Sheet

### EcoFiber PP

High performance fibrillated polypropylene fibers

#### Description

**EcoFiber PP** is a micro reinforcement, manufactured of 100% polypropylene fibers containing no reprocessed olefin materials designed for use with all cementitious mixes.

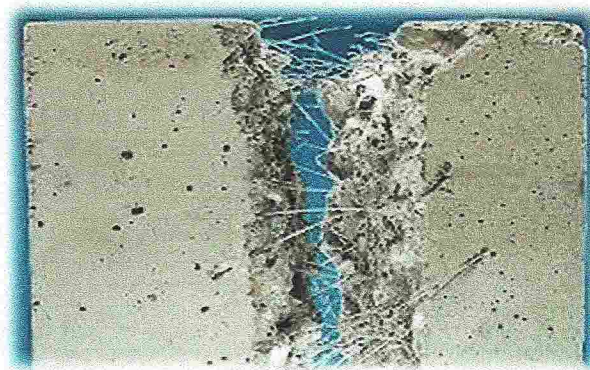
The inclusion of **EcoFiber PP** within a concrete mix or cementitious mixes will control shrinkage cracks and will act as an alternative to traditional crack control steel mesh.

#### Applications

**EcoFiber PP** is widely used in road, bridge, underground waterproof projects, roofing, wall and basement of the industrial construction.

#### Advantages

- Dense and durable concrete/mortar mixes can be designed.
- No agglomeration and easily spread around in mortar or concrete. Improve mechanical strength and reduce crack.
- Be better to plaster. Because a great number of thin fibers spread into mortar evenly, so the plastering is much easier and this can improve the binding strength between surface and base.
- Easy dispersion in both aqueous and non-aqueous media.
- The fiber has stable chemical property, strong acid & alkali resistance, and can be used in any construction projects.
- Good biological resistance.
- Available in variable lengths, 19 and 12mm for concrete and stamped concrete. 3 and 6mm for plasters and mortars.



#### Technical properties

|                              |                         |
|------------------------------|-------------------------|
| Identical Diameter           | 35±5 µm                 |
| Density (g/cm <sup>3</sup> ) | 0.91~0.93               |
| Length (mm)                  | Ava. in 3,6,12, & 19 mm |
| Tensile Strength(MPa)        | ≥500 MPa                |
| Modulus of elasticity        | ≥3500Mpa                |
| Melting Point(°C)            | 160~180°C               |
| Elongation at Break          | ≥15 %                   |

#### Method of use

PP Fiber should be directly added to the dry material and mixed for a minute prior to addition of water. The usual dosage of this as per below:

##### Concrete floors

0.9kg/ m<sup>3</sup> of 19mm fiber length.

##### Stamped concrete

0.6kg/ m<sup>3</sup> of 12mm fiber length.

##### Mortars and plaster

0.6kg/ m<sup>3</sup> of 6 or 3mm fiber length.

#### Shelf Life and Storage

Shelf Life 3 years from the date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature/humidity may reduce shelf life.

#### Disclaimer:

We hope that the information herein will be helpful. The data is based upon knowledge considered to be accurate and true and is offered for the user consideration, investigation



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#### Packaging

Ecofiber PP is available 0.9kg bag.

#### Cautions

Health and safety

Eye: Fibers or fiber dust may cause irritation or scratch the surface of the eyes.

Skin: Contact with fibers may cause mechanical irritation of skin.

Inhalation: Some individuals, e.g. with asthma or bronchitis, are likely to be intolerant of high concentrations of airborne fibers or fiber dust when processing.

Precautionary: Contact with skin, eyes, etc must be avoided.

Disposal: Do not store near flame or incompatible materials. Maintain good housekeeping to control dust accumulations.

Additional Information: Refer MSDS. Available on request.

#### Fire

Ecofiber PP is combustible and will burn if exposed to flame or other sources of ignition.

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