

# PP Fibers

High performance fibrillated polypropylene fibres



## Description

PP Fiber is a micro reinforcement, manufactured of 100% polypropylene fibres containing no reprocessed olefin materials designed for use with all cementitious mixes. The inclusion of PP Fiber within a concrete mix or cementitious mixes will control shrinkage cracks and will act as an alternative to traditional crack control steel mesh.

## Applications

PP Fiber is ideally designed for use in the following applications:

- ▲ Slab on grade.
- ▲ Stamped concrete.
- ▲ Pre-cast concrete.
- ▲ Water tanks.
- ▲ Pavements.
- ▲ Shotcrete.
- ▲ Renders.
- ▲ Composite decks.

## Advantages

- ▲ Controls and inhibits crack formation in concrete.
- ▲ Cost effective, replaces secondary reinforcements (welded steel mesh).
- ▲ Reduce plastic shrinkage and settlement cracking.
- ▲ Available in variable lengths, 19 and 12 mm for concrete and stamped concrete. 3 and 6 mm for plasters and mortars.
- ▲ Compatible with all types of cement and concrete admixtures.
- ▲ Rust free.

## Standards

PP Fiber complies with the requirements of ASTM C-1116-1997, Type 3.

## Method of Use

### Mixing

PP Fiber is added to the mixer before, during or after batching of concrete. Mixing speed and time should be as per ASTM C-94

## Technical Properties:

Composition:	100% virgin Polypropylene
Appearance:	Fibrillated mini bundle
Specific gravity:	0.90 kg / ltr.
Tensile strength:	137 - 689 MPa
Young's modulus:	3.4 - 4.8 GPa
Toughness:	8.82 GPa
Elongation:	25 - 40%
Softening point:	150°C
Melting point:	160°C
Ignition point:	580°C
Chloride content:	Nil
Sulphate content:	Nil
Alkali content:	Nil

## Packaging

19 mm fiber length	: 0.9 kg/ bag
12 mm fiber length	: 0.6 kg/ bag
12 mm fiber length	: 0.9 kg/ bag
3 and 6 mm fiber length	: 0.6 kg/ bag

## Dosage

Concrete floors : 0.9 kg/ m<sup>3</sup> of 19 mm fiber length.  
Stamped concrete: 0.6 kg/ m<sup>3</sup> of 12 mm fiber length.  
Mortars and plaster: 0.6 kg/ m<sup>3</sup> of 6 or 3 mm fiber length.

## Storage

Store under cover away from heat sources.

## Cautions

### Health and Safety

There are no health hazards associated with PP Fiber in normal use.

# PP Fibers

## Fire

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

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- ▲ Concrete admixtures.
- ▲ Grouts and chemical fixings.
- ▲ Concrete repairs.
- ▲ Industrial floorings.
- ▲ Structural protection.
- ▲ Waterproofing.

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