

## SOPRA FIBER PP

### Description

**SOPRA FIBER PP** is a Synthetic fiber of modified polypropylene for use in fiber-reinforced concrete and mortars. Polypropylene fibers reduce the formation of plastic shrinkage cracks on concrete and increase the impact and shatter resistance. Synthetic fibers also increase abrasion resistance in concrete floors and reduce bleeding. Moreover, they improve the elasticity and cohesiveness of mortars and screeds during placing.

### Recommended Uses

**SOPRA FIBER PP** is used in the following applications in fresh (green) concrete to reduce the incidence of shrinkage cracking.

- Pavements.
- Precast concrete products.
- Industrial floors, slabs.
- Wet and dry system sprayed concrete production.
- Airport apron and car park slabs.
- Concrete which is subjected to impact load.
- Screeds and plasters etc.

### Features and benefits

- Improved cohesiveness of the fresh concrete.
- Reduced plastic shrinkage cracks.
- Reduced bleeding.
- Increased abrasion properties.
- Improved freezing and thawing resistance.
- When used in shotcrete, it reduces rebound waste.
- Increased resistance to impact loads.
- Reduced concrete permeability.
- Resistance to slab curling.
- Improved fire damage properties.

### Standards Compliance

**SOPRA FIBER PP** satisfies the requirements of EN 14889-2.

### Storage

**SOPRA FIBER PP** should be stored in a dry place, away from direct sunlight.

### Packaging

**SOPRA FIBER PP** is available in:

40 mm fiber length	0.6 kg/bag
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 & 6 mm fiber length	0.6 kg/bag

### Storage

Store in a dry place, away from direct sunlight.

### Technical Information

#### 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

### Application Instructions

**SOPRA FIBER PP** should be ideally added at the batching plant. In case of site mixing, additional mixing time of 3 to 5 minutes is necessary to ensure the uniform fiber dispersion throughout the mix. If mixing is at the batching plant, fiber should be added first along with half of the mixing water. After all the other ingredients have been added, including the remaining mixing water the concrete or mortar should be mixed for a further 3 minutes at full speed to ensure uniform fiber dispersion.