

## Polypropylene fibers for concrete and mortars

### DESCRIPTION

SILOX PPF is a 100% virgin polypropylene high-performance micro fiber, developed to use with cementitious material concrete/mortar as a crack controlling additive. It is available as monofilament 18, 12 mm in length for concrete and 6mm in length for plaster and mortars.

### Application

used to control plastic shrinkage and settlement cracking. it is the ideal choice to control microcracking at early ages

### Uses

- Slabs-on-grade, sidewalks, driveways, parking areas
- Apartment, villas, factories, warehouse floors
- Footings, foundations, walls and tanks
- concrete road pavement
- Precast and prestressed structures
- Shotcrete and slope paving

### Technical Data

property	result
Material	polypropylene
Specific gravity	0.91 g/cm <sup>3</sup>
Typical dosage rates	0.9 kg/m <sup>3</sup>
Available lengths	6mm / 12 mm / 18 mm
Diameter	32 ±2 µm
Melting point	160-170
Tensile strength	300-400 mpa
Alkali- Acid resistance	Resistant



### Product Benefits

- Polypropylene fibers reduce the formation of plastic shrinkage cracks on concrete
- PP fibers increase abrasion resistance in concrete floors.
- Polypropylene fibers could effectively prevent concrete micro-crack
- Increased concrete abrasion properties.
- Increased concrete Impact Resistance



### Dosage

Dosage of SILOX PPF will vary depending on the area of Application on and the required properties of concrete mixes. Recommended dosage is between 0.6 to 0.9 kg/ m<sup>3</sup> of c



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### **Mixing**

SILOX PPF can be used with all types of cement and is compatible with other concrete admixtures.

### **Standards**

SILOX PPF complies with the requirements of ASTM C-1116 type III & BS EN 14889 – 2

### **Packing**

SILOX PPF is supplied in 600–900 gram water soluble bags, 20 bags per box/45 boxes per pallet.

### **Storage**

Store under cover away from heat sources in a dry place.

### **Shelf life**

Unlimited, if kept in the original sealed packaging, protected from direct sun, humidity and wet areas.

### **Health and Safety**

There is no health hazards associated with PP Fiber in normal use

### **Notice**

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

