

POLYPROPYLENE FIBER

Monofilament reinforcement for mortar and concrete

Fine polypropylene monofilament fibers designed to disperse throughout mortar and fine-aggregate concrete, helping control shrinkage cracking and improve surface durability.

BENEFITS & FEATURES

- Helps control shrinkage and surface cracking.
- Improves resistance to seepage, abrasion, impact and peeling.
- Improves freeze-thaw resistance.
- Disperses evenly, supporting workability and plaster adhesion.
- Strong resistance to acids and alkalis.

TYPICAL APPLICATIONS

Industrial and residential floors; interior and exterior plaster; waterproofing layers; warehouse, workshop and car-park surfaces; swimming pools, ponds and channels; mortar and fine-aggregate concrete works.

DOSAGE

General surface crack control

0.6 kg/m³

Higher-reinforcement applications

0.9-1.0 kg/m³

MIXING INSTRUCTIONS

1. Keep the specified cement, sand and aggregate proportions.
2. Add the fibers with the cement, aggregate and admixtures.
3. Add the required water before mixing. **Do not dry-mix.**
4. Extend mixing by 2-3 minutes to achieve uniform fiber dispersion.

TECHNICAL SPECIFICATIONS

Property	Value
Raw material	Polypropylene
Fiber type	Monofilament
Fiber diameter	0.030 ± 0.005 mm
Tensile strength	≥ 450 MPa
Elongation at break	15-20%
Density	0.91 g/cm ³
Melting point	160-170 °C
Acid / alkali resistance	Strong
Standard lengths	6, 12 and 19 mm*

*Other lengths are indicated in the source; confirm availability.

PACKAGING

Bags: 0.6 kg or 0.9 kg

Carton: 18 kg

Source shipping quantities, without pallets

20 ft container: 400 cartons

40 ft high-cube container: 930 cartons



Polypropylene
monofilament fibers

Use note: The source mentions steel-mesh substitution in plastering only. Any substitution requires project approval; this sheet does not establish replacement of structural reinforcement.