

SIMPLEX CHEMOPACK PRIVATE LIMITED

Polypropylene (PP) Micro Reinforcement Fibre - Technical Datasheet

Product Description

Simplex PP Fibre is manufactured from virgin polypropylene and is designed to reduce plastic shrinkage cracking, improve durability, enhance impact resistance, and provide uniform reinforcement in concrete and mortar applications.

Technical Properties

Property	Typical Value
Material	100% Virgin Polypropylene
Fibre Type	Monofilament / Fibrillated
Colour	White
Density	0.91 g/cm ³
Length Available	3, 6, 12, 18, 24 mm
Tensile Strength	≥ 500 MPa
Melting Point	160°C
Ignition Temperature	> 580°C
Water Absorption	Nil
Alkali Resistance	Excellent
Acid Resistance	Excellent
Electrical Conductivity	Non-Conductive

Recommended Dosage

- Mortar & Plaster: 0.6-0.9 kg/m³
- Concrete Slabs: 0.9-1.2 kg/m³
- Pavements: 0.9-1.5 kg/m³
- Precast Products: 0.9-1.2 kg/m³
- Shotcrete: 1.0-2.0 kg/m³

Key Benefits

- Reduces plastic shrinkage cracking
- Improves crack resistance
- Enhances impact resistance
- Improves abrasion resistance
- Reduces permeability
- Improves durability and toughness

- Corrosion-free reinforcement
- Easy dispersion during mixing
- Compatible with all cement types and admixtures

Applications

- Industrial Flooring
- Concrete Roads & Pavements
- Precast Elements
- Tunnel Linings
- Shotcrete
- Canal Lining
- Water Tanks
- Residential & Commercial Construction
- Concrete Blocks & Pavers

Packaging

- 600 g Water Soluble Packs
- 900 g Water Soluble Packs
- 1 kg Bags
- 20 kg Master Bags
- Customized Packing Available

Storage

Store in a dry covered area away from direct sunlight. Product has unlimited shelf life under normal storage conditions.

Compliance

ISO 9001 Manufacturing Standards

Other standards available upon customer requirement.