

AEROTM
CONCHEM LLP

AN ISO 9001 : 2008 CERTIFIED COMPANY

AEROFIBER PP

High Performance Polypropylene Fibers For Concrete & Mortar

Description

AEROFIBER PP is a High performance crimped monofilament polypropylene fibers 6 mm, 10 mm & 12 mm long. It is a 100 % virgin polypropylene.

Uses

- To improve the durability of cementitious screeds and toppings by inhibiting the formation of small cracks, which occur because of plastic shrinkage and settlement due to premature drying.
- Durability is further enhanced due to increased residual strength, resulting in improved abrasion, impact and spalling resistance.
- Even distribution throughout the mix is due to fibers being coated with a special dispersing agent. Improves fiber bond and eliminates the requirement for shrinkage control wire mesh reinforcement.
- Can be used for internal & external plaster, concrete repairs, precast concrete railway sleepers etc.,

Advantages

- Inhibits plastic shrinkage and settlement cracking
- Eliminates shrinkage control wire reinforcement
- Cost effective compared with wire reinforcement
- Specially pre-bagged to ensure correct dosing
- Improved abrasion, frost and impact resistance (good drop hammer results)
- Over 300 million fibers per m3 of screed
- Controlled dispersion throughout the mix
- Reduced permeability and water absorption
- Reduced segregation and bleeding
- Improves surface finishing
- Alkali resistant and will not corrode.
- Can be used with all types of cement.
- Used as a secondary reinforcement in concrete
- Improves tensile and compressive strength

Limitations

AEROFIBER PP cannot be used as a replacement for structural steel reinforcement.

Consumption

Approx. 1 kg of 12 mm AEROFIBER PP per cubic meter of screed or topping.

- 75 g bag to 25 kg of cement
- 150 g bag to 50 kg of cement
- 500 g bag to a 1 tonne batch of ready mixed screed

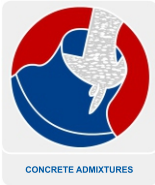
Typical Properties & Specifications:

Sr.No	Properties	Specification
1	Denier (As per DIN - 53812)	6.30
2	Tenacity (As per DIN - 53816)	4.63
3	Material	100% Virgin polypropylene
	Size:	
4	Length	6mm, 10 mm & 12 mm.
5	Diameter	30 to 100 micron
6	Surface characteristics	Lustrous white rough surface.
7	Elongation	55%
8	Modulus of Elasticity	1240 - 1517 Mpa
9	Melting Point	160°C- 170°C
10	Ignition Point	590°C
11	Thermal Conductivity	Low
12	Electrical conductivity	Low
13	Acid & Salt Resistance	High.
14	Absorption	Nil

Instruction for use

Mixing

When site mixing screeds, the fibers should be added immediately following the aggregates, cement and half water whilst the mixer is turning. The balance of the water to achieve required workability is then added and mixing continued to ensure AEROFIBER PP are thoroughly dispersed. Minimum total mixing time is 5 minutes. When plant batching screeds, in a forced action mortar mixer, the fibers should be added to the mixer as the first ingredient, followed by the other constituents.



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Placing

Screeds or toppings containing AEROFIBER PP may have an apparent increase in cohesiveness. It is important that additional water is not added. Fiber dosed mixes may be hand tamped or rolled to provide the necessary compaction.

Finishing

Screeds or toppings containing AEROFIBER PP may be power floated or hand steel trowelled to provide a smooth and fiber-free surface appearance.

Curing

Normal good curing practices for conventional screeds or toppings must be strictly followed.

Packing & Dosage

Packing: 125 gms., 500 gms. & 1 kg.

Dosage: 125 gms. / 50 kg. bag of cement

Shelf Life & Storage

AEROFIBER PP has a shelf life of 18 months from date of manufacture when kept at a temperature between 5 °C to 45 °C and store in the original, unopened bags. All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

Quality Assurance

AERO CONCHEM LLP is a firm of Assessed Capability. The company's quality system conforms to ISO 9001:2008.

Health & Safety

AEROFIBER PP is no-toxic and non-flammable. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.

OUR RANGE OF PRODUCTS



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