

AddChem PPF®



Description

AddChem PPF® is monofilament polypropylene, high performance, value added synthetic fibers for use in the construction industry and reduce the occurrence of plastic shrinkage and plastic settlement cracking, whilst enhancing the surface properties and durability of hardened cementitious products.

Advantages

- Reduced Plastic Shrinkage Cracks.
- Reduced Plastic Settlement.
- Reduced Bleeding.
- Alternative to Crack Control Mesh.
- Reduced Water & Chemical Permeability.
- Reduced Explosive Spalling in Fire.
- Increased Abrasion Properties.

USES

AddChem PPF® is ideal to:

- Internal Floor Slabs.
- Water Retaining Structures.
- Concrete Buildings.
- Repair Materials.
- External Hard Standings.
- Pattern Imprinted Concrete.
- Precast Concrete.
- Tunnels.
- Extruded Concrete.
- Agricultural Areas.
- Piling Concrete.
- Shotcrete/Gunit.

Technical Properties

Dosage	910 gm bag/ m ³ .
Base	Polypropylene.
Chloride content	Nil.
Appearance	White to transparent.
Compatibility	Compatible with all types of Portland cements and cement replacement materials.
Form	Fiber form.
Absorption	Nil.
Elongation	> 80%

Standards Compliance

- ASTM C1018.
- C1116 BBA certificate No. 92/2830.

Packaging

AddChem PPF® is available in IBC and other pack size.

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Special performance:

Impact Resistance: AddChem PPF® enhanced concrete will give greater protection from joint edge deterioration in floor slabs and helps to protect arises in precast concrete products'. Its impact resistance properties mean that **AddChem PPF®** should be considered for heavy industrial use, military installations for blast damage resistance and other applications where seismic activity could be a problem and improved impact resistance of **AddChem PPF®** enhanced concrete can be accredited to the high amount of energy absorbed in deboning, stretching, and pulling out of the fibers after the cement matrix has cracked.

Abrasion Resistance: As part of **AddChem PPF®** continuing effort to provide a cost-effective solution to this widespread problem, we suggest that **AddChem PPF®** be added to correctly designed mixes in order to provide significant abrasion resistance and control the bleed water migration in a concrete mix, reducing the possibility of segregation of the fine cement and sand particles. This will give more efficient hydration of cement, and combined with the improved bonding of the cement matrix achieves a tougher more durable concrete surface.

Explosive Spalling Resistance: Exploding concrete is a danger not only to fire fighters and other emergency services attempting to put out the fire but also to survivors attempting to flee either the tunnel or high rise structure. However, the Maun threat is to the integrity of the structure itself as the irreversible spalling phenomenon continues to strip concrete away from any supporting steel structure, which could eventually be weakened by the excessive temperatures and subsequently collapse.

Shelf Life

Shelf life is up to 12 months when stored as per recommendations.

Technical support

For any technical support, please contact **iChem** technical office or representatives

Quality

All products manufactured by iChemEG, or imported from iChemEG affiliate companies worldwide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems.

Warehouse Conditions

AddChem PPF® store in normal temperature and closed shaded dry area in undamaged original packing.

Health & safety

AddChem PPF® is non flammable or health hazard.

PPE in accordance with the health and safety rules should be used during the materials application.

Residues of material must be removed according to local regulations.

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