

CTC PPF

High Performance Micro Polypropylene Fibres

Description:

PPF is a high performance 100% virgin polypropylene fibre, with no olefin materials, developed as a crack controlling additive for cementitious materials. It is available in 12mm and 19mm length for concrete and 3mm and 6mm length for plaster and mortar. It is used to inhibit the formation of small cracks which can occur through plastic shrinkage, premature drying and early thermal changes, in order to provide utilization of the intrinsic properties of the hardened cementitious material.

PPF is based on selected raw materials and manufactured under controlled conditions giving a consistent product.

PPF is supplied in different sizes:

- ✦ 12 & 19mm fibre length, F type, is designed for concrete floors.
- ✦ 12mm fibre length, M type, is designed for stamped concrete.
- ✦ 3 or 6mm fibre length, M type, is designed for mortar mixes and plaster.

Uses:

PPF is primarily used as a crack controlling additive for cementitious materials. Typical applications are:

- ✦ Crack control in ready-mix concrete, precast concrete, conventional shotcrete, screeds, rendering mortars, microsilica concrete.
- ✦ Concrete slabs, pavements, driveways, stamped concrete.

- ✦ Water retaining structures, marine concrete etc.
- ✦ Patch repair, thin section walling etc.

Advantages:

- ✦ Cost effective – replaces anti crack wire mesh (secondary reinforcement).
- ✦ User friendly – decreases construction time and labor.
- ✦ Versatile – inhibits intrinsic cracking in concrete, improves finishing characteristics, concrete durability and acts as rust proofer.
- ✦ Disperses uniformly throughout the mix and does not rust.

Properties:

Form	100% virgin polypropylene fibre
Specific Gravity	0.91 g/cm ³
Alkali Content	Nil
Sulphate Content	Nil
Chloride Content	Nil

- ✦ **Elasticity modulus:** 3500 – 4800 MPa.
- ✦ **Tensile strength:** Around 350 N/mm².
- ✦ **Melting point:** 160 – 170°C.
- ✦ **Ignition point:** 590°C.

Shelf Life/ Storage:

PPF has a shelf life of 24- months if stored in warehouse conditions below 35°C.

Safety Precautions:

Contact with concrete may cause irritation. Wear suitable protective clothing, gloves and eye/face protection. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. After contact with skin, wash immediately with plenty of clean water.

