



CRACKLESS PP FIBER

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Polypropylene monofilament Fiber, for Concrete, Cement based mixtures, to Improve the mechanical properties

Value Adding

- Easily disperse in concrete and cement based mixtures.
- Minimum effect on the workability of concrete and cementitious mixtures.
- Alkaline resistant enabling the fiber strands to withstand the deterioration effect of concrete.
- If mixed well does not affect the bond of Monolithic hard top materials with base concrete.

Economic , Easy to use

- Economic, one 0.9 kg. Pack is very sufficient for crack reducing of concrete, or mortar.
- Easy to add and easily disperse in concrete truck mixer or by hand blending

Technical Specifications

- White fiber filaments 100% pure PolyPropylene in bundle shape.
- Fiber Length: 6, 12 or 18 mm.
- Density : 0.91 gm/cm³
- Fiber Diameter: 18-22 microns.
- Water Absorption: Nil.
- Melting Point : 160° C.
- Specific Surface Area: 240 square meter/ Kg.



Crackless PP Features:

 **Crackless PP** is a polypropylene monofilament fiber strands specially manufactured to improve the mechanical properties of concrete and all cement based mixtures, reducing deep and surface cracks resulting from the brittle nature of concrete.

 The fiber nature is monofilament which bound in bundles, easily disperse in the concrete and cement based mixtures by concrete truck mixing or hand stirring and blending.

 **Crackless PP** is an alkaline resistant material which is the medium of concrete and all cement based mixtures, enabling the fiber to withstand deterioration or decay by time.

 Complies with all requirements of ASTM C1116, and contains Zero Volatile Organic Content.



Technical Specifications (Continued)

- Electrical Conductivity: Non-conductive.
- Thermal Conductivity: Very Low.
- Acid Resistivity: Very Good.
- Alkaline Resistivity: Excellent (100% resistant up to PH 12)
- Elongation 80-90 %.
- Tensile Strength 350-400 N/ mm²
- Reduces shrinkage of concrete and cement based mixtures.
- Increases wear and abrasion resistance of concrete surface.

Health and Safety

- **Crackless PP Fiber is not poisonous and does not react with or affect the human skin upon long exposure, it is an inert polymer and does not affect the health of humans as general**

Packaging

- Supplied in 0.9 Kg. Plastic, sealed bags suitable for mixing with cubic meter of concrete or mortar.
- Each 20 Sacks packed in carton Box.

Application Fields:

 Crackless PP Fiber is used in these application fields:

 Concrete Floor slabs, Bridges, Samped and pattern imprinted concrete.

 Precast Concrete, Repair mixtures, Fire resistance concrete.

 Piling Concrete, Shotcrete (Gunit), Water retaining structures.

Application Guide:

 The recommended dose is 0.9 kg. (One pack)/ m³ concrete or mortar.

 For best mixing the fiber is added to concrete in patch plant, but practically the fiber may added to the truck mixer in site.

 Extra mixing time may be required to ensure the best mixing conditions.

 In case of repair mortars and plaster it is preferred to mix by mechanical blending for 2 minutes with the cement based Mixture.

 Mixing should be continued until getting a homogenous mixture of concrete or mortar.



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