



CRACKLESS FIBER

كراكليس فايبر

100 % Natural Fiber, for concrete and cement based matrix, Easy to mix, To produce Crackless Concrete, and Cement Mixtures

Added Value

- The only product for Secondary reinforcing concrete and cement based matrix which is totally natural material and does not affect the workability of concrete.
- Easy to mix and disperse in cement-based mixtures, and concrete, and does not affect the surface shape or appearance of concrete.

Economic and Easy to Apply

- Economic since one bag (1 Kg.) of **Crackless** is sufficient for secondary reinforcement of 2 cubic meter of concrete.
- Easy to add to the batch plant or to the concrete truck in site.

Product Specifications

- Off White to yellowish fibers.
- Bulk Density: 0.25- 0.4 g/cm³.
- PH (5% slurry) : 7-8.
- Fiber Length: 0.3-0.4 mm.
- Moisture Content: Max. 8 %.
- Valid for 2 years in an unopened packs.



Crackless, Concept and Product

 **Crackless** is a 100% natural fiber for concrete and cementitious mixtures extracted from special trees and treated synthetically to obtain homogenous, consistent, and easy to mix fiber matrix.

 Unlike all concrete fibers **Crackless** is an easy to mix and disperse fiber strands, mono-filament, does not affect the workability of concrete, hence consuming less admixtures for the same workability.

 **Crackless** is a **GREEN** material, since it is a natural material and does not affect the environment, or the health of the people who is in direct contact with the fiber.

Application Fields

- **Concrete Floors, for Factories, Commercial areas, and Storage areas.**
- **Concrete countertops for kitchens and restaurants.**
- **Precast units for fences, gardens, and concrete planting units.**
- **In all cases where a secondary reinforcement is required.**
- **Could be applied for plaster and masonry works, for preventing crack formation.**

Health and Safety

- **Wear gloves and goggles while application.**
- **The material is not harmful for skin.**
- **Water-based, washing out with plenty of water.**

Packing

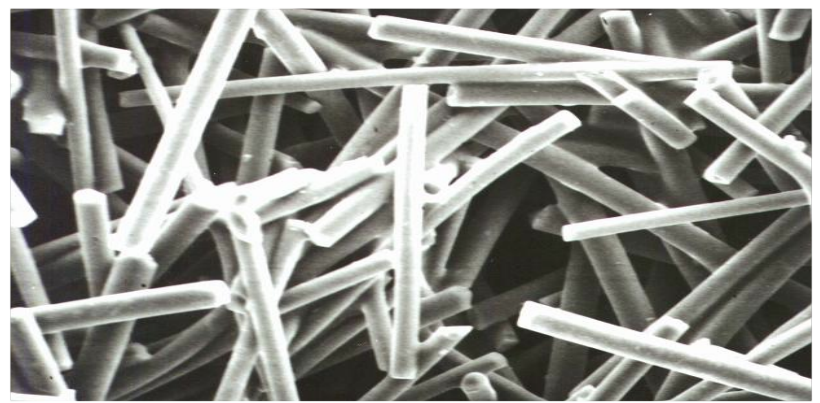
- **A plastic bag contains 1 kg. of the most purified natural fibers Crackless mixed with 2 Cubic meters concrete**
- **A carton box, each contains 25 bags.**

Improvements:

- ✓ The addition of **Crackless** increase the flexural and tensile strength of concrete.
- ✓ The addition of **Crackless** prevents the formation of surface cracks.
- ✓ There is no big effect on workability of concrete.

Addition Procedure

- ✓ A pre-packed plastic pack 1 Kg. is suitable for 2 cubic meter of concrete as a secondary reinforcement.
- ✓ The addition to batch plant or to the mixing truck manually is recommended.
- ✓ Extra mixing for extra 3-5 minutes is recommended.
- ✓ A slight reduction in slump (1-2 cm) is expected and could be recovered by small addition of suitable plasticizer or superplasticiser .



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