Fibrecrete

Fibrecrete is a concrete containing fibrous material which increases its structural integrity

Why Fibrecrete?

Want to reduce the shrinkage cracks after concreting?

- YES

Want to replace steel reinforcements to get mechanical strength of normal concrete ?

- No

Then Fibrecrete is your ultimate solution as it reduces the dry shrinkage cracks and improves the mechanical strength.

Fibrecrete is a fresh concrete containing hydraulic cement, water aggregate and polypropylene fibres.

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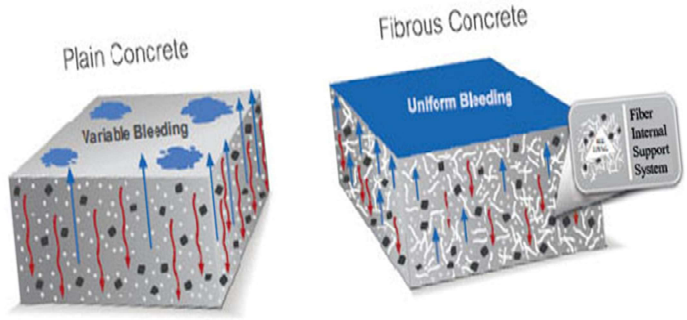
How does Fibrecrete Work?

- Fibers act like an internal three dimensional net, supporting the aggregate and minimizing settlement.
- Fibers can also help combat shrinkage by spreading the tensile loads across the concrete and flows through openings approaching the size of the mix coarse aggregate without segregation
- The modulus of elasticity of Recron 3s is high with respect to the modulus of elasticity of the concrete or mortar binder. This helps in increasing flexural strength.
- These fibers play a valuable role during the curing process and they simply stretch too much to provide any resistance to tensile stresses.



More about Fibrecrete

Benefits & Advantages

- Bridging the cracks
- Improves ductility
- More resistance to impact load
- Lowers permeability of concrete thus reducing the bleeding of water.
- Resistance to freezing and thawing
- Reduction in maintenance and repair cost

Applications

- Bridge decks
- Slabs
- Driveways
- Basements
- Industrial pavements
- Runways
- tunnels
- Precast structures

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Fibrecrete – Physical Properties

Strength Class (Comp)	As per requirement
Dosage	Up to 1%
Fiber length	12 +/- 1mm
Flexural Strength	5 Mpa
Compaction Required	Yes
Specific Gravity (Fibre)	1.34

* - Plastic Density measured at 30 min from batching time
Technical details shall be advised on request.

- Special Precautions
  - Prevent the concrete from sudden shocks after pouring
  - Ensure proper curing
  - Allow certain time and then do the finishing of concrete.

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