

STEEL FIBRES FOR CONCRETE MORTAR REINFORCEMENT

Description

Steel fiber concrete is more durable than plain concrete made from the same mix design. the fibers within the alkaline environment of the concrete are protected from corrosion with correct mix selection and using normal finishing processes very few fibres will be left exposed at the surface of the slab.

A suitable fiber should have a high l/d ratio (length /diameter ratio). To avoid fiber balling Metop steel fibers are glued together in small bundles.

Metop steel fibers are made from prime quality hard drawn steel wire to ensure high tensile strength and close tolerances.

Hooked end which is generally considered as the best form of anchorage.

The gluing of the fibers into bundles guarantees quick and easy mixing with perfectly homogenous distribution.

Application area

- *Indoor and out door ,Concrete reinforcement
- *Industrial floors such as warehouses, work shops.
- *In retaining walls,
- *Harbour pavements,Tunnels
- *For Precast elements,industrial floors,etc

Advantages,

- *Ductile concrete with high load bearing capacity,
- *Efficient crack control
- *Durability,
- *Quick and easy application,
- *Efficient and cost effective solution.
- *strength and toughness (ductility)
- *high stress resistance (energy absorption)

Technical Advantages

- Pre-Reinforced Concrete
- Simplified process
- No mesh to transport, buy, store, lay etc...
- Time savings on site
- Earlier project completion
- Concrete volume savings
- Reduction in crane hire time

Truck mixer

- Add Steel fibres as the final component into the back of the mixer truck.
- Run mixer at drum speed: 12-18 rpm.
- Adjust slump to a min. of 12 cm (preferably with water reducing agents or high water reducing agents).
- Add fibres with maximum speed of 40 kg/min.
- Optional equipment: belt-hoist elevator
- After adding the fibres, continue mixing at highest speed for 4-5 min.

Coverage :

- Add 18-25 kg /(m³ of fresh concrete mix) .

Storage

- Store in a dry non humid area.



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