

FIBFLOOR-HT

Non - Metallic Floor Hardener

DESCRIPTION

Fibfloor-HT is a quartz-silica mixture of finely graded non-metallic aggregates, plasticizer and cement binder. It is an economical concrete floor hardener recommended for both interior and exterior use. It almost doubles the abrasion resistance of plain, cured concrete & is particularly valuable because of its non-rusting characteristics when floors will be frequently wet.

AREAS OF APPLICATION

Fibfloor-HT is used whenever floor surfaces will be subjected to light-to-heavy usage, whenever abrasion resistant or non-rusting floors are specified

- Car Park Areas Of Commercial and Public Buildings
- Food Processing and Electronics Industries
- Breweries
- Restaurants
- Dairy Farms
- Automobile Showrooms and Service Centers
- Warehouses
- Loading Docks and High Traffic Air Ways, etc.

FEATURES & BENEFITS

- Hardens concrete in one economical operation
- Use of hard and properly graded aggregates increases the wear resistance over plain concrete floors
- Can be used in conjunction with vacuum dewatered concrete at 3-5 kg/m² spread rate for normal traffic. For heavy traffic, use 6-12 kg/m²
- Non-rusting materials make it possible to use Fibfloor HT outdoors as well as indoors
- dispersing agent contained in Fibfloor HT makes it possible to incorporate Fibfloor HT into the surface of low slump concrete resulting in exceptionally high surface strengths for maximum wear resistance

APPLICATION METHODOLOGY

These directions are to be followed for application of Fibfloor HT on well designed, non-air entrained concrete mixes. Keep air content of the concrete below 3%. Minimum cement content per m³ of concrete will be 300 kg and slump required is 50-70mm.

Sub-grade and Reinforcing:

- Special attention should be given to a well compacted and level sub-grade. A sub-grade that is not well compacted could cause cracking in the slab. Follow the specifications for use if reinforcing bars or welded wire mesh.
- Check the specifications for the amount of hardener required per square meter then stick the correct number of bags at each bay to be placed that day. This is important because it gives the finishers a "gauge" for applying the right amount of material.

After the above conditions have been met, proceed with work in the following manner:

DRY SHAKE METHOD

- Place concrete between screed points and strike off a level of finished floor.
- Use float to level surface. To remove excess water, drag surface with a sack.
- After the concrete has stiffened somewhat, open the surface by floating with hand wood or power float.



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- For best results and uniformity of thickness, Fibfloor HT should be applied in two shakes using approximately two-thirds of the total amount for the first shake.
- First Fibfloor HT Shake: Immediately after the surface has been opened by floating, apply the first shake when the screed slab is free of surface water and has set to a degree that when a man stands on the slab he leaves footprints about 5 mm deep maximum.
- Allow the first shake to remain un-worked on the surface, until it has absorbed moisture and is of uniform colour. Then float with hand wood or power float. The Second shake is applied at right angles to the first one, making application from the edges first.
- After the second shake has absorbed its moisture, float in the same manner as outlined above working the edges then cross floating for a level surface.
- Steel Troweling: When the surface has set sufficiently so that no additional water or fines are brought to the surface, steel troweling shall be done on the floor. During this operation the trowel should be slightly raised to give a hard and smooth finish. Leave troweling operation half, if broom finish is required.

Abrasion Resistance: Floor treatment with Fibfloor HT. Fibfloor HT gives 200 % better abrasion resistance compared to control concrete.

Compressive Strength: At water contents equivalent to those contained in practical application the typical 28 days compressive strength of Fibfloor HT is 60 – 70 N/mm²

TECHNICAL SPECIFICATIONS

Water Absorption	: 6 to 6.5 %
Shelf Life	: 6 months
Medium	: 3 to 5.0 kg/m ²
Heavy Traffic	: 6.0 to 12.0 kg/m ²

STORAGE

Store in dry condition, preferably in plastic sheet or wooden pallet in godown away from direct sunlight

PACKAGING

Available in 25 & 50kg, HDPE bags.

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