

FIBFLOOR-HTC

Carborandum based Non-Metallic Floor Hardener

DESCRIPTION

Fibfloor HTC is a dry shake, non metallic floor hardener with cleaned and graded iron aggregate in a high strength cementitious binder. Designed to be incorporated into fresh concrete slabs. Fibfloor HTM provides a dense, tough surface capable of withstanding the abrasion and impact loading seen by floors slabs of numerous industrial and manufacturing facilities.

Fibfloor HTC has been specially formulated to be applied at heavy application rates which exceed those of standard or other first generation metallic hardeners.

AREAS OF APPLICATION

- Industrial Floors
- Warehouses
- Processing Plants
- Passenger and Freight Terminals
- Loading Docks
- Main High Traffic Airways
- Steel Plants and Textile Units
- Distribution Centers

FEATURES & BENEFITS

- Provides a high strength wearing surface.
- Gives up to 8 times the abrasion resistance of plain, cured concrete.
- Easy to clean and maintain.
- Iron aggregate is free of rust, oil, and non-ferrous material.
- Dense surface resists penetration of oil, grease, and many other liquids.
- Virtually non-dusting in service

APPLICATION TECHNIQUES

- Mechanical Spreader
- By Hand
- By Shovel (experienced craftsmen only)

APPLICATION METHODOLOGY

These directions are to be followed for application of Fibfloor HTC on well designed, non-air-entrained concrete mixes. If unusual conditions exist, such as direct hot sun, high winds, low humidity or cold weather, contact Fibrex Construction Chemicals Pvt.Limited for the best method of using Fibfloor HTC under these conditions.

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 of reinforcing bars or welded wire mesh.

Do not use calcium chloride or calcium chloride base admixtures in the concrete. The finished floor must be cured and sealed immediately after finishing, to prevent oxidation of the Fibfloor HTC surface. Keep air content of the concrete below 3%. Do not use air-entraining admixtures. Minimum cement content or base concrete should be 300 kg/m³ and slump while pouring should be 50 mm to 70 mm. Check the specifications for the amount of hardener required per square meter than stack



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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 correct amount of material.

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

- Place minimum 50 mm thick concrete between screed points and strike off to level of finished floor.
- Use Fibslip on side shuttering. Pour minimum 100 mm concrete in case of vacuum dewatering.
- Use bullfloat or darby to level surface. Allow the slab to bleed. To remove bleed water, drag surface with a burlap or a rubber hose.
- After the concrete has stiffened to the point of supporting floating operations, open the surface by hand floating or power floating. Normally, a finisher's footprint of 6.4 mm to 9.5 mm in depth indicates that the slab is ready for power floating. Earlier floating of slab edges by hand is strongly recommended since edges will dry first.
- For best results and uniformity of thickness, and Fibfloor HTC should be applied in two shakes using approximately two-thirds of the total amount for the first shake. For heavier applications, use 3 shakes of Fibfloor HTC
- Immediately after the slab surface has been opened by floating, apply the first shake in a uniform application by hand, spreader or other suitable method.
- Allow the first shake to remain unworked on the surface, until it has absorbed moisture and achieved a dark, uniform colour. Then float with hand or power float. Then immediately apply second shake, applying it to the edges first.
- After second shake has absorbed its moisture, float in the same manner as outlined above working the edges first, then cross floating for a level, uniform surface.
- First Steel Troweling: Flat troweling should be done, keeping the trowel flat and only after the surface has become dull.
- Final Steel Troweling: When the surface has set sufficiently so that no additional water or lines are brought to the surface, a second and final troweling should be given to the floor. During this operation the trowel should be slightly raised to give a hard and smooth finish. Continue troweling process until the desired surface finish is achieved.
- Curing and sealing for Fibfloor HTC: Choose Fibrezeal to apply on the surface, in accordance with label instructions.

COLOR

Fibfloor HTC comes is a " natural " grey colour appearance which is darker than plain concrete due to metallic aggregate

COVERAGE RATES

Fibfloor HTC may be applied at rates from 2.5 - 7.5 kg/m² depending on the degree of protection required

PRECAUTIONS

- Do not use over air-entrained concrete.
- Do not use over concrete containing calcium chloride or chloride based admixtures.
- Proper curing and sealing is required.

TECHNICAL SPECIFICATIONS

Abrasion Resistance: Upto 200-225% better abrasion resistance compared to control concrete

PACKAGING

Available in 25 & 50kg, HDPE bags.

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