B&B Specialities (INDIA) Private Limited.

"The Specialty Chemical Company"

HI-HARD FLOOR

(Non metallic, monolithic surface hardening compound for fresh concrete floor)

Description

HI-HARD FLOOR is quality controlled, factory blended powder which are ready to use on site. They contain spe- cial quartz-silica aggregates which have been selected for abrasion and wear resistant properties as well as shape and size. These latter considerations, together with the use of high performance workability admixtures, produces a material which is easy to trowel into the surface of fresh, wet concrete. HI-HARD FLOOR cure monolithically to provide a dense, non-porous surface which is extremely hardwearing and abrasion resistant.

Uses

HI-HARD FLOOR provide a highly abrasion resistant surface to concrete floors by the dry shake-on method which ensures that the hardwearing surface bonds monolithically to the base concrete. They are ideally suited for all industrial areas subject to the heaviest traffic, e.g. loading bays, trucking lanes, car parks, workshops, machine shops, ramps and spillways.

Advantages

Supplied ready to use, no additive required

Non metallic - does not rust or stain.

Provides a hard, abrasion resistant surface

Forms monolithic bond with base concrete

Easy and economical to apply

Properties

Abrasion resistance (ASTM C779, Revolving Disc methods

Ready to use

HI-HARD FLOOR is supplied ready to use on site.

Cement or aggregates should never be added to HI-HARD FLOOR.

Specification clause

Non metallic surface floor hardener

All concrete floors shall be surfaced or broadcast with HI-HARD FLOOR, a non-metallic monolithic surface floor hardening compounds containing rust free, hardwearing aggregates.

Compressive strength

HI-HARD FLOOR shall possess a minimum compressive strength above 45 N/mm^2 in 7days and 60N/mm2 in 28days.

Application instructions

Base concrete

The base concrete should have a minimum total cementitious content of 300 kg/m^3. The concrete mix should be designed to minimize segregation and bleeding. Although there should not be any bleed water, but a wet "sheen" can still be clearly seen on the concrete surface, is the ideal situation for HI-HARD FLOOR to have its first application.

The base concrete should be laid and compacted in accordance with good concrete practice. Accurate finished profile and minimum laitance build-up should be ensured. Particular attention should be paid to bay edges and corners to ensure full compaction.

This is advisable to carryout a mock-up with HI-HARD FLOOR along-with the available concrete at site to finalize the Hardtop application timing as it is extremely dependent on temperature and humidity present at site.

Packaging

HI-HARD FLOOR is supplied in sealed 25 kg bags**.**

Storage

If kept in original undamaged packing, the shelf life of HI-HARD FLOOR should be atleast 6 months under normal warehouse conditions. Keep away from direct sunlight.

Timing of Application

The timing of application HI-HARD FLOOR is important and critical. If applied too early, bleed or excess water will wash away the cementitious content of the products, thereby making them ineffective. Also denser aggregates sink into the concrete.

If the application of HI-HARD FLOOR is done too late, there will not be sufficient water/moisture to absorb the material into the concrete. No material should be forcefully applied.

Be very cautious while application of HI-HARD FLOOR in the edges that face severe impact. Be sure to apply excess volumes of HI-HARD FLOOR in the edges (perform trails to suit your requirements)

Curing

Tests have shown that proper curing of concrete floors treated with products such as HI-HARD FLOOR is essential to ensure the physical properties of the floor.

The most efficient method of curing by using HI-CURE, HIBOND's curing membrane.

Health & Safety instructions

HI-HARD FLOOR contains portland cement and are therefore alkaline when in contact with water. Prolonged contact with the skin should be avoided. Any eye contamination should be washed immediately with plenty of clean water and medical advice sought.

This Product is Formulated and Labeled and Commercial use only

For Best Results and Safest Usage, User is Specialty Directed to Consult.

Product Warranty: All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct, HIBOND warrants its products to be free of mfg. Defects and that, at the time and place of shipment, our material will meet current published physical properties when applied within HIBOND'S directions and tested in HIBOND'S standards. HIBOND'S facility is limited to replacement of material found to be defective. As HIBOND has no control over the use to which others may put its products. It is recommended that the product be tested to determine if suitable for a specific application and / or our information is valid in particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, applications and proper installation of each product. Nothing contained herein shall be construed to be a recommendation to use or as a license to operate under or to infringe any existing patents.