



Concast™ FH

Non-Metallic Dry Shake Floor Hardener

PRODUCT DESCRIPTION

Concast FH is a ready to use dry shake floor hardener composed of 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. The aggregates used have been selected for their shape, grading and high physical and mechanical quality. It strengthens concrete surfaces to make it extremely resistant to abrasion, while protecting the surface from gas, oil and chemical attacks. Its non-skid and anti-slip characteristics ensure safety & durability for concrete floors.

FEATURES & BENEFITS

- ✓ High abrasion and impact resistance –Long service life.
- ✓ Better abrasion resistance than plain concrete – Extended service life.
- ✓ Non rusting –Suitable for wet environments.
- ✓ Non-slip –Improved safety for personnel and forklifts in wet environments.
- ✓ Dense surface –Resists oil and grease penetration.
- ✓ Coloured surface –Can create aesthetically pleasing environment.
- ✓ Easy application at time of placing concrete
- ✓ Floor available for full service once concrete is cured.
- ✓ Able to be applied at higher ambient temperatures– Wide application range



COLOUR

- Natural Grey - Brick Red - Fransiscan Red
- Traffic Green - Harvest Amber - Cream

Note: Custom colours available on request

APPLICATION AREAS

Concast FH is suitable for surface hardening of floor slabs and screeds where good abrasion resistance and reduced dusting is required. It is suitable for floors subjected to severe mechanical wear, for example:

- Warehouses/ Manufacturing units
- Quays
- Engineering workshops
- Parking lots, Driving & loading ramps
- Service stations and factories
- Ports
- External concrete roads
- Garages, Showrooms etc

CLASSIFICATION STANDARD

- ✓ **ACI 302.1R-89 (USA) American Concrete Institute**
- ✓ **ASTM C779 (USA) American Society for Testing & Materials**
- ✓ **ASTM C109 (USA) American Society for Testing & Materials**

TECHNICAL DATA & INDICATIVE PROPERTIES

Colour	Grey
Bulk Density	1.52 g/cc
Water Absorption	8% (Maximum)
Compressive Strength after 28 days	40 N/mm ²
Abrasion Resistance	300 % (minimum) as compare to reference sample
Scratch Hardness (Moh's Hardness)	7

COVERAGE

Dosage varies from 3 Kg/m² to 7 Kg/m²

Light traffic 3-3.5 kg/m²

Medium traffic 4-5 kg/m²

Heavy traffic 6-7 kg/m²

Note: Because it is not possible to give specific instructions for the various site conditions or to control the applications, the information on this Technical Data Sheet is for general guidance only. CONFLOOR TECHNOLOGIES LLP reserves the rights to amend the contents of the data sheet at its sole discretion. Consult the latest update of the technical data sheet on our website www.confloors.in

Confloor Technologies LLP| Registered & Corporate Office : SCO 640, 2nd Floor, B-Block, Greenfield Colony, Faridabad- 121010, Haryana, INDIA, Tel : +91 129 4198906

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APPLICATION GUIDE

Floor Concrete Surface Preparation

The floor concrete should be placed in accordance with good concrete practices. The Water: Cement ratio should be kept to a maximum limit of 0.55 with a slump value of 60-80mm. Concrete produced with water reducing admixture results better performance with reduced bleed water. Particular care must be taken at the corners and edges of bays, hand ramming and firm trowelling being carried out to ensure that the level can be maintained throughout the subsequent trowelling operations. The floor concrete can also be vacuum dewatered.

Application of Concast FH

For uniformity of colour and thickness, **Concast FH** should be applied in two shakes using approximately two-thirds of the total amount on the first shake and applying the second shake at right angles to the first. To achieve the most uniform colour, the floor should not be overworked or worked when bleeding of the concrete is still evident. A coloured shake must be worked in slowly, carefully and uniformly for proper distribution and depth of colour.

Allow **Concast FH** to absorb moisture and float it into the surface with a wood float or mechanical trowel equipped with float blades in a flat position. **DO NOT** steel trowel. Apply second shake and again allow it to absorb moisture from the floor and then float into the concrete surface.

When the surface has become sufficiently firm, steel trowel to produce the desired finish. Cure the natural (non-coloured) **Concast FH** concrete surface with **Concast Cretecare**.

Care must be taken when using **Concast FH** with concrete containing more than 3% entrained air and fly ash at more than 12% the weight of the cement. Both entrained air and high fly ash content can slow and reduce the availability of bleed water. The bleed water is necessary to wet out the product. Without sufficient bleed water, the product cannot perform as designed and impaired bonding is likely. Contact a representative for recommendations.

PRODUCT INFORMATION

Packaging: Available in 25 kgs HDPE Bags

Shelf Life & Storage: 12 months from date of manufacturing when stored properly in unopened sealed packaging in cool dry condition away from rain and sunlight with temperatures ranging from +5°C to 30°C.

PRECAUTION

Concast FH should not be applied on too wet or surfaces with bleed water. If it is used in such cases, heavy filler aggregates may sink into the fresh concrete; therefore, performance of **Concast FH** shall not be achieved as expected.

On the other hand, if the concrete is too dry, there should not be sufficient water to bond with the concrete and because of over trowelling, surface crack and delamination may appear in later stage.

SAFETY INFORMATION

Concast FH 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. Wear hand gloves, safety shoes and safety goggles while using and handling the product.

Concast FH is not flammable.

For most current data sheet and SDS, write to us at info@confloors.in



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