

Corrofloor CFH

Dry shake floor hardener

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Product Features

Corrofloor CFH is a pre mixed & bagged blend of cements, special aggregates & additives, which when power floated onto new concrete gives a smooth, dense, hard wearing surface, that substantially increases abrasion resistance over normal concrete.

Corrofloor CFH is non metallic, free from chlorides and forms a strong monolithic bond with the parent concrete.

Typical Uses

Corrofloor CFH is suitable for a wide range of industries & applications and is used to provide a hard wearing but economical finish, particularly in shops, production and storage areas, work shops, warehouses, loading bays, car parks, heavy industry and any areas subject to high traffic & mechanical abuse.

Technical Data		
Properties	Test Standards	Typical Values
Appearance		: grey powder, special colour on request
Particle size		: 0 - 2.5 mm
Bulk density (part A)		: 1.5 ± 0.1
Mohs hardness	BS EN 101	: 6 to 7
Compressive strength @ 28 days	BS EN 196: 2005	: > 70 N/mm ²

Note: All values given are subject to 5 - 10% tolerance.

Directions for Use

Preparation

Corrofloor CFH can only be applied to fresh concrete or screeds. For hardening or coating existing concrete, please contact the Corrotech office.

High performance concrete is essential to ensure durability of the floor in service. **Corrofloor CFH** can not make weak concrete stronger and more durable. **Corrofloor CFH** is not recommended for use with vacuum dewatered or air entrained concrete.

Corrotech high water-reducing admixtures such as the **Chrysofluid** range are highly recommended for use in the concrete to give a consistent, good quality, high strength mix with a minimum cement content of 300 kg / m³ and a maximum water : cement ratio 0.55.

Prior to concrete delivery mark the floor into known areas, calculate sufficient **Corrofloor CFH** and arrange for materials to be placed adjacent to the area that will be concreted.

Priming

Priming is not required for **Corrofloor CFH**.

Mixing

No mixing is required for this product as it is added to the fresh in-situ concrete.

Application

Once poured and levelled concrete has achieved its plastic state and bleed water has evaporated, application of **Corrofloor CFH** should be done in 2 phases.

First, evenly scatter **Corrofloor CFH** onto the concrete surface at a rate of 2 - 4 kg per m², allowing the residual moisture in the concrete to be absorbed by the floor hardener, hydrating and darkening it in colour.

Once it has become uniformly dark from the absorption of water, it can be floated into the concrete typically using power floats to ensure good compaction and a monolithic surface, however it should not be overworked as the final application still has to be applied. Hand trowels can be used to smooth areas that are inaccessible from the power floats.

Immediately after floating, repeat the application of **Corrofloor CFH** at a rate of 1 - 4 kg per m² dependant on the specification or level of expected traffic, and wait for the hardener to become dark from absorbing moisture.

Again using power floats to ensure good compaction and a monolithic surface with the first application, float the **Corrofloor CFH** into the concrete and continue until a dense, polished final surface is achieved.

The application should be carried out in a continuous operation without breaks, therefore please ensure sufficient materials, equipment and labour are available to achieve this.

Corrotech recommends using the maximum dosage of **Corrofloor CFH**, along the line and to a maximum width of 150 mm either side of any joints.

The inclusion of expansion, construction and induced joints are highly recommended particularly for large floor areas.

Curing

Curing is essential for all cementitious products to prevent possible shrinkage cracks and ensure the performance characteristics of the concrete and product are achieved.

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We recommend curing for at least 28 days using one of the **Corrocure** range, applied to the **Corrofloor CFH** immediately after finishing.

Hot Weather Conditions

For application above 40°C we recommend adopting the following guidelines:

Store unmixed materials in a cool preferably air conditioned environment.

Avoid exposure of mixed & unmixed materials to direct sunlight.

Keep equipment that will be in contact with the product cool and away from direct sunlight.

Avoid application during the hottest time of day.

Apply polythene sheet over the concrete surface after scattering the **Corrofloor CFH**, to ensure the residual moisture from the concrete hydrates the hardener and does not evaporate.

Cleaning

Clean tools & equipment immediately after use with detergent and water.

Limitations

Substrate temperatures should be above 5°C and rising.

For application in temperatures above 40°C please refer to hot weather condition recommendation.

Avoid application if the work area may be subject to the onset of rain or moving water.

Additional coating protection should be applied if the product is exposed to chemicals.

If the above general application details do not meet with your requirements, please contact Corrotech for a project specific method statement.

Estimating

Corrofloor CFH pack size: 25 kg. Coverage rate as per the guide lines below:

3 kg per m² for light traffic

5 kg per m² for medium traffic

7 kg per m² for heavy traffic and along joints

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

Health & safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

Storage

Corrofloor CFH has a maximum shelf life of 12 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.