

# FH 20

## Non metallic floor hardener

### DESCRIPTION

FH 20 is a pre-mix blended powder containing hydraulic binders and special wear resistance mineral aggregates. It is used as a dry shake over fresh, wet concrete to provide a dense, non-porous surface which is extremely hardwearing and abrasion resistant. FH 20 provides a slip floor resistant surface which will never rust and disintegrate.

### USES

FH 20 is ideally suited for floors subjected to heavy traffic and not exposed to serious chemical attack such as:

- Loading bays
- Mechanical workshops
- Storage rooms
- Garages
- Car parks and ramps

### FEATURES

- Hard wearing and abrasion resistance: provides highly durable floor
- Non metallic: does not rust or stain
- Good monolithic bond with base concrete
- Provides a non-slip surface
- Dense surface: increased resistance to ingress of oil and grease.
- Floor available for full service once concrete is cured.

### PHYSICAL PROPERTIES

FH 20 @ 27±1°C

MOH'S Scale Hardness  
Medium Duty

7 - 8

Compressive Strength  
28 days

> 50 N/mm<sup>2</sup>

VOC Content

4.35 g/L

### PACK SIZE

25 kg

### COVERAGE

Application Rate kg/m <sup>2</sup>	Traffic Use	Avg. wear
6.8 kg - 7 kg	Heavy	< 2 mm
4.7 kg - 5 kg	Medium	2 - 3.5 mm
2.8 kg - 3 kg	Light	3.5 - 4 mm

### APPLICATION INSTRUCTIONS

#### Base Concrete

The base concrete should have a minimum cement content of 300 kg/m<sup>3</sup>. The concrete mix should be designed to minimise segregation and bleeding. The concrete should ideally have a slump of 75mm.

The base concrete should be laid and compacted in accordance with good concrete practice. Following placement, concrete should be levelled off with a straightedge and then vibrated. The surface is then floated with a wooden float ensuring that it is not closed. Any bleed water should be removed. Particular attention should be paid to bay edges and corners to ensure full compaction.

### Application

FH 20 is supplied ready to use on site. Cement or aggregates should never be added. It is recommended that the floor be marked off into bays of known area. Sufficient material should then be laid out to meet the required spread rates. Application of FH 20 can begin when the base concrete has stiffened to the point when light foot traffic leaves an imprint of about 3mm. Any bleed water should by now have evaporated.

**Note:** The timing of FH 20 application 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 FH 20 is done too late, there will not be sufficient water/moisture to absorb the material into the concrete. Material forcibly applied and trowelled thus, will cause cracks on the surface later, as there is no water/moisture to hydrate the product.

### FH 20 is applied in two stages

- First stage: Take 60 - 70% of the material and evenly broadcast onto the fresh concrete surface. When the material becomes uniformly dark by the absorption of moisture from the concrete, float the FH 20 into the concrete using a wooden float ensuring that it becomes an integral part of the surface.
- Second stage: Immediately after floating, the remaining FH 20 is sprinkled evenly over the surface. Again wait for the material to become uniformly dark by the absorption of moisture and the surface can be floated in the same way as before. Final finishing of the floor using a power trowel can be carried out when the floor has stiffened sufficiently.

### Bay edges

While applying FH 20 at the edges of the concrete floor or, at the end of bays, extra precaution should be taken by way of sprinkling more material and finishing it smoothly with a steel trowel. This is an additional protection particularly to bay edges where the reaction due to heavy impact is more.

### Curing

Proper curing of concrete floors treated with FH 20 is essential to ensure the physical properties of the floor. Curing should be carried out immediately after the final trowelling operation has been completed. This can be done by either covering with polyethylene sheets or by the application of C 20 (Concrete curing compound).

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### STORAGE AND SHELF LIFE

FH 20 has a shelf life of 12 months when stored in normal dry conditions.

### PRECAUTIONS

Avoid contact with eyes and prolonged contact with the skin. Care should be taken to avoid inhalation or ingestion of dust and prevent contact with the eyes. In case of contact with eyes, flush with ample amount of clean water and seek medical advice if necessary.

### DISPOSAL/SPILLAGE

Spillage of the product should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

For further information please refer to the Material Safety Data Sheet.

### CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

### NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products. However, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.



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