

## Non-Metallic Dry-Shake Floor Hardener

### DESCRIPTION

**DANOFLOOR FHQ** is a quality controlled and graded, factory processed blended powder for ready to use on site consisting of non-metallic, non-oxidizing special hardwearing aggregates known for its high abrasion and wear resistant properties with cement and other special additives.

Use of **DANOFLOOR FHQ** overcomes problems associated with thin granolithic screeds, such as shrinkage, cracking, slipping etc.

### USES

DANOFLOOR FHQ is use to provide a high abrasion resistant hardwearing monolithic surface to concrete floors and pavements by the dry shake application system in areas such as:

- All types of industrial floors.
- Loading, unloading bays and gangways.
- Ramps and vehicular traffic areas.
- Heavy engineering factories and workshops.
- Machine shops and garage floors.
- Hangers and abattoirs
- Warehouse and power plant floors.
- Other concrete floors requiring high resistance to abrasion, wear and tear and impact.

### ADVANTAGES

- Provides harder, denser & high abrasion resistance.
- Becomes monolithic with the base concrete.
- Improves impact resistance of conventional floors by 2 to 3 times.
- Non-Metallic, Non-Oxidizing & Non-Corrosive - does not rust or stain or disintegrate the floors.
- Suitable for use with VDF flooring system.
- Densifies the concrete surface reducing the surface pores - imparts high resistance to penetration by oil, grease, fuels, hydraulic fluids and other industrial chemicals enhancing the concrete floor durability.

### PROPERTIES

Colour*	Grey
Appearance	Free flowing granular powder
Solids	100%
Compressive Strength (28 Days)	≥50 mPa
Abrasion Resistance**	≥200%
Mohs Scale Hardness (Aggregate)	≥7

\*Standard colours available on request.

\*\*Increase in abrasion resistance over the conventional concrete floor without floor hardener, when tested as per IS:1237:1980.

### APPLICATION METHODOLOGY

#### BASE CONCRETE

The base concrete mix should have minimum 300 kg/m<sup>3</sup> cement per cubic metre and a maximum w/c ratio 0.55.

The concrete mix should be designed to minimize segregation and bleeding.

The concrete mix should be cohesive with slump ranging between 50 to 80 mm.

Use of water reducing admixture in concrete mix would be an added advantage.

In accordance with good concrete practice the base concrete should be laid and compacted. Accurate finished profile and minimum laitance build up should be ensured.

Bay edges and corners should be paid special attention to ensure full compaction.

**DANOFLOOR FHQ** is applied at different application rates to provide floor surfaces suitable for different types of use.

## APPLICATION RATE

Intended Use	Application Rate, Kg./m <sup>2</sup>
Heavy Duty	7.0
Medium Duty	5.0
Light Duty	3.0

It is recommended that the floor be marked-off into bays of known area.

**DANOFLOOR FHQ** is broadcasted in two equal stages evenly over the surface of freshly laid concrete as soon as the surface water has evaporated or when the depth of the light footprint is about 3mm to 5mm.

The first application is made by broadcasting 50% - 70% of the material evenly over the fresh concrete surface. When the surface darkens by the absorption of moisture from the concrete, it is floated with wooden trowel or power float.

Avoid over working / over trowelling the surface.

Immediately after floating, the balance quantity of **DANOFLOOR FHQ** is broadcasted evenly over the surface and when the surface darkens due to absorption of moisture from concrete, the surface is floated in same way as before.

For concrete with optimized w/c ratio, such as in VDF flooring system, it is recommended to broadcast **DANOFLOOR FHQ** @3 to 4 Kg./m<sup>2</sup> in 2 stages.

Final finishing of the floor using a power trowel can be carried out when the floor has stiffened sufficiently to close any pores and undulation on the surface. Final hand trowelling is recommended to remove any disc marks.

At edges of the concrete floor or at end of bay areas, it is recommended to broadcast more floor hardener and finish with trowel.

## CURING

Curing should commence as soon as final set has occurred but before the treated surface begins to dry.

Wet curing of applied system as per basic curing procedure would be beneficial.

After final finishing, rapid drying of applied system should be prevented by covering it with polyethylene sheet / wet hessian cloth / pond curing for at least 7 days.

## PRECAUTIONS & LIMITATIONS

One should never add cement or aggregate to the supplied **DANOFLOOR FHQ**.

Use of **DANOFLOOR FHQ** is not recommended for floors subjected to sub-zero temperatures, such as in cold storages.

Care should be taken to ensure that **DANOFLOOR FHQ** is not broadcasted on too wet or too dry concrete surface or concrete surface having bleed water.

If use on too wet concrete surfaces, the heavy filler particles may sink in to the fresh concrete affecting the performance.

If use on too dry concrete surface, the bond development with fresh concrete will be weak and over troweling would result in surface cracking / delamination.

## CLEANING

Immediately after application, use water for cleaning application tools.

## SUPPLY

**DANOFLOOR FHQ** is supplied in 30 Kg. pack size.

## STORAGE

**DANOFLOOR FHQ** must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight. The shelf life is 6 months in sealed unopened packing.

## SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage. Avoid contact with skin, eyes, mouth and food. For further detail, refer to Material Safety Data Sheet.

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