



# CWC®SMART FLOOR NMF

## Pre-Mixed Non-Metallic Dry Shake Floor Hardener

### Description

CWC®SMART FLOOR NMF is ready-to-use blend of factory processed and specially graded non-oxidizing, non-metallic aggregate, special cement and additives, free from oil, grease and other contaminants. When it is broad casted on freshly laid concrete, after finishing, it forms a tough, hard, wear resistance monolithic floor.

### Indicative Characteristics

<b>Color</b>	Grey
<b>Abrasion Resistance (as per IS 1237-2012)</b>	300 % (minimum) as comparé to reference sample
<b>Compressive Strength (as per IS 4031-1988)</b>	50 N/mm <sup>2</sup> (minimum)
<b>Water absorption (as per IS 1237-2012)</b>	10% (maximum)
<b>Average Wear (application rate 7kg/m<sup>2</sup>)</b>	< 2mm
<b>Mohs Scale Hardness (aggregate)</b>	7

### Domains of Application

By the use of CWC®SMART FLOOR NMF, the top surfaces of flooring and paving can be made wear resistant and dustproof. It is ideally suited for use in all types of industrial floors, which are subjected to heavy traffic movement. It can withstand the impact load due to movement of heavy load over the floor topping. It is specially recommended in heavy engineering factories or as workshop floor toppings, hangers, car parks, in warehouses and gangways where frequently trolleys with metal wheels or forklifts carrying heavy load.

### Method of Application

#### Floor Concreting

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.

#### Mixing & Application

CWC®SMART FLOOR NMF should be broadcast in two equal stages evenly over the surface of freshly laid concrete as soon as the surface water has evaporated or when depth of light footprint is about 3-5mm. Immediately after each stage of broadcasting of CWC®SMART FLOOR NMF the first trowelling should be carried out, either by hand or by means of a power float. When the surface has sufficiently stiffened a second trowelling should be given to close any pores and remove any undulation in the surface. This shall be followed by a final hand trowelling to remove any disc marks.

#### Curing

Curing is essential part of CWC®SMART FLOOR NMF flooring system. The effective curing method is to apply CWC®KURE WB or any other effective curing membrane manufactured by CWC. Other curing methods such as covering with plastic sheet, wet hessian cloth or pond curing is also accepted and shall be continued at 7days

#### Coverage

TYPE OF FLOOR	CONSUMPTION (kg/m <sup>2</sup> )
Light Duty	3.0 – 3.5
Moderate Duty	4.0 – 5.0
Heavy Duty	6.0 – 8.0

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### Advantages

- Excellent wear resistance and produces high degree of abrasion resistant floor surface.
- Impact resistance 2 to 3 times more than that of plain concrete.
- Superior densified surface than plain concrete which increases resistance to penetration by oil, grease, hydraulic fluids, motor fuels, and many industrial chemicals.
- Being Non- metallic nature, safely be used for dry as well as wet areas.
- Non-rusting and easy maintenance.
- Compatible with vacuum dewatering flooring (VDF) system
- Facilitates fast construction with minimum site costs.
- Bonds well with most conventional cementitious substrates

### Shelf Life & Storage

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C

### Packing

25kg waterproof laminated HDPE bag

### Precautions

- **CWC®SMART FLOOR NMF** 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 **CWC®SMART FLOOR NMF** 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

- Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet.  
The MSDS is available on [www.cwcchemical.in](http://www.cwcchemical.in)