



**AERO**<sup>TM</sup>  
CONCHEM LLP

AN ISO 9001 : 2008 CERTIFIED COMPANY

## AEROFLOOR SHIELD MT

Dry-shake, metallic aggregate surface hardener

### Description

AEROFLOOR SHIELD MT is a ready to use metallic floor hardener comprised of clean and well graded iron aggregates, special additives and Portland cement. The iron aggregates are selected from ground cast iron, then kiln fired to remove all organic materials. AEROFLOOR SHIELD MT can only be used inside. It is available in a natural concrete color.

### Uses

- Industrial floor surfaces subject to heavy or frequent traffic, impact and abrasion.
- Industrial floors needing additional abrasion and impact resistance at a reasonable installation costing.
- Areas where surface dusting is unacceptable.
- Manufacturing plants including car, truck and tractor assembly plants.
- Processing plants, warehouses and loading docks.
- Foundries and industrial plants.

### Advantages

- High impact resistant floor.
- Ductile metal aggregates resists high point loading and impact.
- Improved resistance to chemicals / oils / greases / solvents.
- Long service life/low maintenance.
- Resistant to dusting, spalling and deterioration.
- A wear-resistant floor with a smooth or non-slip, durable finish.
- A floor which reduces wear on the wheels of material handling equipments.

### Instruction For Use

#### Base concrete

The base concrete should have a minimum cement content of 300 kg/m<sup>3</sup> with low slump of 40-60mm. Improves the quality of concrete mix and enables low w/c ratio to be kept. By using AEROPLAST NP, workability of base concrete can be improved with a low w/c ratio.

#### Method of Laying Base Concrete

The base concrete must be laid in accordance with good concrete practice either in bays or long strips. Particular care must be taken at the corners and edges of the bays to obtain good compaction and to maintain level for subsequent trowel operations. If too much of free water is seen on the surface, water content in subsequent concrete must be reduced to obviate the presence of free water. The time of the application is very important in order to derive full benefits of AEROFLOOR SHIELD MT.

If AEROFLOOR SHIELD MT is applied too early, it will absorb water, hard wearing aggregate may sink to the bottom. If application of AEROFLOOR SHIELD MT is delayed, no moisture from the concrete surface will be available to hydrate AEROFLOOR SHIELD MT, resulting in poor pitted surface.

### Typical Properties & Specifications:

The values given below are average figures achieved in laboratory tests. Actual values obtained on site may show minor variations from those quoted.

| Sr.No | Properties              | Specification         |
|-------|-------------------------|-----------------------|
| 1     | Finishing               | Smooth, but anti-skid |
| 2     | Hardness on Mho's scale | 8 to 9                |
| 3     | Physical Appearance     | Grey Color powder     |

As a guide, the application should be made between 1 Hours-1.5 Hour i.e. when surface water on concrete is completely evaporated. (When tested with Thumb, it leaves an impression but concrete does not stick to the Thumb). (Separate Application guide is available on request). The application rate is 5 kg/m<sup>2</sup> of AEROFLOOR SHIELD MT Powder. The application is made in two stages :

1. First 50% of the required material is broadcast evenly and when the surface darkens with the absorption of water, the surface is floated.
2. The second application is made immediately, by evenly broadcasting the balance 50% material and when the surface has darkened with the absorption of water, the surface is floated. Power floating would be ideal. Floating is recommended with half or full disc. The second troweling is done after the surface has sufficiently stiffened i.e. after two hours after the first troweling, to close any pores and remove any undulations on the surface. Final hand troweling is recommended to remove any disc marks.

### Curing

After final troweling, as soon as the surface has hardened sufficiently, to prevent damage, it should be covered with a polythene sheet and made air tight by placing sand all round the sheet for a minimum period of 7 days. Alternatively curing by ponding is recommended for a minimum 7 days.

### Tools Cleaning

Tools and equipment can be easily cleaned with a clean water.

### Precautions

- Do not apply over concrete containing calcium chloride.
- Do not apply over concrete containing aggregate contaminated with salt or salt water.
- Do not apply over concrete containing free water on the surface.
- Do not apply over concrete containing more than 3 % entrained air.



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### Packing & Coverage

Packing : SAYO FLOOR SHIELD MT is available in 25 kg. woven bag.

Coverage :

Light duty : 3 kg/m<sup>2</sup>

Medium duty : 5 kg/m<sup>2</sup>

Heavy duty : 7 kg/m<sup>2</sup>

Concentrated traffic : 9 kg/m<sup>2</sup>

### Shelf Life & Storage

AEROFLOOR SHIELD MT has a shelf life of 12 months from date of manufacture when kept at a temperature between 5 °C to 45 °C and store in the original, unopened bags. All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

### Quality Assurance

AERO CONCHEM LLP is a firm of Assessed Capability. The company's quality system conforms to ISO 9001:2008 certified.

### Health & Safety

AEROFLOOR SHIELD MT should not come into contact with skin, eyes or be swallowed. Protective glasses should be worn during mixing and application. Should AEROFLOOR SHIELD MT come into contact with skin, remove before hardening by washing with soap and water. Should accidental eye contact occur wash with plenty of water and seek medical advice. If swallowed seek medical advice immediately. Do not induce vomiting. For full health and safety data refer to Product Safety Data Sheet.

### OUR RANGE OF PRODUCTS



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