



Let's Build GREEN

AN ISO 9001:2015 CERTIFIED COMPANY

# MAP - FLOOR SHIELD (MT)

Dry-shake, metallic aggregate surface hardener

## DESCRIPTION

MAP - FLOOR 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, and kiln fired to remove all organic materials. MAP - FLOOR 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.

## INSTRUCTIONS 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.

### 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

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 and anti-skid
2	Hardness on Mho's Scale	8 – 9
3	Physical Appearance	Grey Colour Powder

As a guide, the application should be made between 1 - 1.5 Hr 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 onrequest). The application rate is 5 kg/m<sup>2</sup> of MAP - FLOOR 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 trowel 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.

## 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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### TOOLS CLEANING

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

### PACKAGING & COVERAGE

**PACKING :** MAP - 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

MAP - FLOOR 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.

### HEALTH & SAFETY

MAP - FLOORSHIELD (MT) should not come into contact with skin, eyes or be swallowed. Protective glasses should be worn during mixing and application. If MAP - FLOORSHIELD MT comes into contact with skin, remove before hardening by washing with soap and water. If 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.

### QUALITY ASSURANCE

MAP PRODUCTS PVT LTD. is a firm of Assessed Capability. The company conform to the standard quality system, environmental management and is an ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 Certified Company.



CONCRETE  
ADMIXTURE



WATERPROOFING  
SYSTEM



MASONRY REPAIR



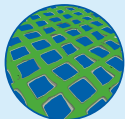
READYMIX  
MORTAR



ENGINEERING  
GROUT



FLOORING  
SYSTEM



TECHNICAL TEXTILE  
GLASS REINFORCEMENT



SEALANT



PROTECTIVE  
COATING



ADHESIVE  
BONDING AGENT

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