

# POLYFLOOR HARD-M (METAL)

Impact And Abrasion Resistant Metallic  
Dry Shack Monolithic Floor Hardener

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## Product Description

**POLYFLOOR METAL** is a dry shake - on metallic floor hardener, designed of clean and graded steel aggregates together with a unique polymer modified cementations blend.

**POLYFLOOR METAL** bonds monolithically with the concrete substrate eliminating cracking, shrinkage, curling and other problems associated with thin floor layers.

## Typical Application

- Industrial Floors.
- Warehouses where high abrasion and impact loads are expected.
- Passenger & freight terminals.
- Iron armored joints.
- Distribution centres.
- Where wear, impact and abrasion resistance are required.

## Product Features

- Provides a high strength wearing surface compared to concrete.
- Non - dusting in service.
- Available in various colours.
- Economical and easy to apply.
- Increases impact resistance to concrete surface.

## Limitations

NOT recommended for use on slabs subjected to continuous wetting and acid spillage.

## Standards

**POLYFLOOR METAL** is tested to the appropriate sections of the following standards:-BS-1881 & ASTM C-109.

## Properties

### **Colour**

Brick red & Gray.

Other colours could be specially ordered.

### **Abrasion Resistance**

**POLYFLOOR METAL** improves the abrasion resistance of concrete by 260 %.

### **Compressive Strength**

75 N/mm<sup>2</sup> after 28 days.3-6 hours

## Guide for Application

### **Preparation**

Base concrete should have a minimum cement content of 350 Kg/m<sup>3</sup>. Concrete mix should be designed to minimize segregation and bleeding.

Base concrete should be compacted in accordance with good concrete practice.

### **Application**

The rate of **POLYFLOOR METAL** should be determined. It mainly depends on the rate of expected traffic; (light - medium - heavy).

Start applying **POLYFLOOR METAL** when foot step leaves an imprint of 3 mm. on the concrete.

Apply the first application of **POLYFLOOR METAL** by spreading 2/3 of the specified quantity on the concrete surface.

Float the concrete surface with a wooden float or a mechanical power float.

Spread the remaining of **POLYFLOOR METAL** over the concrete surface, then float again as before after the absence of sheen water (after one hour @25°C)

**Note:** **POLYFLOOR METAL** is supplied ready to use on site, never add cement or aggregates to the product.

## Curing

We recommend the use of **POLYCURE WB I** to cure concrete surfaces immediately after trawling. (See separate data sheet)

## Cleaning

Tools should be cleaned immediately with water after use.

## Packaging

**POLYFLOOR METAL** is supplied in 25 kg. bags.

## Coverage

3 Kg/m<sup>2</sup> for light traffic.  
5 Kg /m<sup>2</sup> for medium traffic.  
7 Kg/m<sup>2</sup> for heavy traffic

## STORAGE

**POLYFLOOR METAL** should be stored in shaded areas away from any surface of moisture.

## Shelf Live

One year when stored correctly in unopened containers.

## Health and safety

- **POLYFLOOR METAL** is non flammable.
- Any splashes on skin should be washed with water.
- Seek medical assistance in case of contact with eyes, after washing it with running water.

## Guarantee / Warranty

We warrant our products to be of good quality and manufactured to rigid standards. This warranty is in lieu of any and all other warranties expressed or implied.

This data sheet is published for information only. It is believed to be correct but no liability is accepted for it or the suitability of the product for any particular purpose.

**POLYCOO** services are free and the company dose not accepts liability for any loss arising from it.

## Technical Services

For any further technical advice and recommendation for the use of all **POLYCOO** products, please consult the nearest **POLYCOO** technical office.



Under technical collaboration with

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