



# SOLIDFLOOR HARDENER

Hardwearing, Abrasion Resistant Monolithic Industrial Flooring Component



## DESCRIPTION

**SOLIDFLOOR HARDENER** is supplied as a monolithic industrial flooring compound ready to use factory controlled, dry shake cementitious system blended with special aggregates, selected for high abrasion and wear resistance and additives **SOLIDFLOOR HARDENER** is used to obtain a dense, tough, abrasion resistant industrial floor with non dusty and non slip characteristics. For extremely heavy flooring 12mm thick **SOLIDFLOOR HARDENER** ready to use monolithic floor hardener is recommended. (Separate data sheet is available on this product).

## BENEFITS

- > Ready to use, factory controlled.
- > Eliminates on site mixing.
- > Provides dense, non porous surface on application.
- > Hardwearing, abrasion resistant.
- > Monolithic bond with the base concrete.
- > Non dusty and non slip surface.
- > Facilitates easy cleaning.
- > Long life and low maintenance.
- > Available in various colors.
- > Non metallic and iron free.

## USES

- > **SOLIDFLOOR HARDENER** is can be used in loading bays, factories, warehouse, car parking areas, truck lanes, workshops, garages, subways and power station
- > Recommended for refurbishment over terazzo, quarry and ceramic tile.
- > Also, recommended for workshops, showroom, food and beverage processing areas to withstand moderate to heavy traffic.

## PACKING & COVERAGE

**SOLIDFLOOR HARDENER** is supplied in 25kg lined HDPE bag and has a coverage of 5kg / m<sup>2</sup> . For light duty sprinkle 3kg / m<sup>2</sup> and for heavy duty sprinkle 7kg / m<sup>2</sup> .

## SHELF LIFE & STORAGE

**SOLIDFLOOR HARDENER** will have a shelf life of 12 months in unopened container when kept in dry conditions at a temperature between 5 ~ 45 °C. Storage at higher temperature or high humidity may reduce shelf life.

## PRODUCT

**SOLIDFLOOR HARDENER** is a cementitious industrial flooring compound which creates a monolithic bond with substrates.

## PROPERTIES

### ABRASION RESISTANCE

**SOLIDFLOOR HARDENER** has been tested with funditor abrasion machine using Silicon Carbid Wheels. The sample was tested for 10,000 revs at a fixed speed and the amount of wear assessed by measuring the depth of the groove by abrasion wheels at four points around the perimeter. The result show that **SOLIDFLOOR HARDENER** improves the abrasion resistance compared to grano by over 150%. (as per **ASTM Standards**).

**Compressive Strength :** The **SOLIDFLOOR HARDENER** cubes when tested for compressive strength have typical strength of over 100kg / cm at 28 days. Mho's scale hardness of **SOLIDFLOOR HARDENER** aggregates between 7 ~ 8 scale.

**Color Range :** Presently available in natural grey only.

## APPLICATION INSTRUCTIONS

**Based Concrete:** The base concrete should have a minimum cement content of 300kg / m with a slump of 40 ~ 60mm with a low water cement 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 trowelling operations. If too much of free water is seen on the surface, subsequent water content in concrete must be reduced to obviate the presence of free water.

## SURFACE SEALING

If surface sealing is through to be necessary, two coats of **SOLIDFLOOR EP (S)** epoxy flooring coating can be applied to provide further protection to concrete and steel surface apart from aesthetic appearance. (Separate data sheet is available on this product).

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## APPLICATION

As a guide, the application should be made between 1-2 hours i.e, when the surface water on concrete is completely evaporated (when tested with Thumb, it leaves an impression but concrete does not stick to the Thumb). The application is made in 2 stages: divide the floor in equal number of bays. As soon as the concrete become tacky, make 150 to 200mm strip on edges. Spray the material on these strips with dry shake. Apply the power floater for a compaction and to get moisture on top. Second application will be in perpendicular to first application. In one of the bays, when edges are covered with dry shake, start spraying / spreading material in mid strips. After 12 hours of application, this requires pond curing for the high strength, abrasion resistance floor.

## SPECIFICATION

**SOLIDFLOOR HARDENER** is a monolithic industrial flooring compound ready to use cementitious system with special fillers applied strictly in accordance with the instruction of SOLID.

## QUALITY ASSURANCE

SOLID manufactures the entire range of construction chemical under compliance of SIRIM and other international standards (ASTM, BS, GBI, LEED).

## TECHNICAL SERVICES

While new advance and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our technical personnel and experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.

**Disclaimer :** The information provided in the data sheets is based on both current development of work and years of field experience. Efforts are made to ensure that the information is reliable, however, we cannot accept the responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc. In view of continuing research and development (R&D) undertaken in our laboratories, we advise customers to ensure that the data sheets provided are not superseded by an updated publication. All products are sold are subject to our standard condition of sale, which is available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact our local SOLID representative.

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