

# Technical Data Sheet - TDS



## RocFloor MH

Mineral based dry-shake floor hardener

### PRODUCT DESCRIPTION

RocFloor MH is a factory blended, quality controlled powder consisting of special hardwearing mineral aggregates, Portland cement and chemical additives. When applied as a dry shake application to concrete RocFloor MH gives an extremely hard wearing, abrasion resistant and durable floor which will resist the ingress of aggressive liquids.

RocFloor MH will trowel easily into the surface of fresh wet concrete and will cure monolithically, thereby alleviating the problems normally associated with thin granolithic toppings e.g. curling, cracking, shrinkage etc. RocFloor MH combines with free water, cement and fine aggregates at the surface of the vibrated concrete to reduce the water/cement ratio and to increase density and compressive strength.

### APPLICATION AND USAGE

RocFloor MH is ideally suited for use on all industrial floor areas subjected to heavy traffic i.e. power stations, abattoirs, loading bays, car parks, warehouses, engineering workshops, refineries, factories, agricultural buildings etc.

### ADVANTAGES

- ▶ Economical & supplied ready to use.
- ▶ Excellent abrasion & slip resistance, reduces dusting.
- ▶ Forms monolithic bond
- ▶ No stain, non oxidizing & non metallic
- ▶ Reduced penetration of aggressive liquids
- ▶ Reduces maintenance costs

### TYPICAL PROPERTIES

Concrete placement: The concrete should be placed, leveled and compacted following standard practices. The surface is then wooden floated to leave the surface open ensuring that there is no bleed water. RocFloor MH is normally applied 30-40 minutes after concrete placement. This time varies according to ambient temperatures. The surface must be neither too wet nor too dry and will normally allow foot traffic leaving imprints of no greater than 3mm.

RocFloor MH is applied in three applications.

Initial application: RocFloor MH should first be applied along the bay edges and where expansion and contraction joints are to be located. Apply at 0.5-1.0kg per linear

metre in strips of 80-100mm width.

Second application: Using raised trestles to span the slab, broadcast the first two thirds of the RocFloor MH by hand at a uniform rate. Allow to darken by absorption of moisture from the base concrete; lightly wooden float this material into the concrete. Care should be taken to ensure the surface is not overworked.

Third application: When the first has been troweled in, broadcast the remaining one third of the RocFloor MH at right angles to the first. Allow to absorb moisture and float as above. When the sheen begins to leave the surface, use a power float to close the pores and completely level the surface. If the floor is to be finished by hand trowel ensure sufficient masons are available to complete the work prior to concrete hardening.

Curing: Curing should be carried out immediately after the final troweling operation has been completed. Cover with polyethylene sheets and water cure for 48 hours. Thereafter curing may be done by using TufCure CL or by conventional means. Protect all surfaces from traffic until the surface has completely hardened or full strength has been reached.

Subsequent coatings: These may be applied over the cured surface for chemical resistance, aesthetics or demarcation

## PACKING & STORAGE

RocFloor MH is supplied in 25kg bags and should be stored in dry, shaded warehouses in the same conditions as cement. When stored in dry conditions shelf life will be 12 months.

## TYPICAL PROPERTIES

|                      |                                    |
|----------------------|------------------------------------|
| Component            | Single                             |
| Hardness( Mohs)      | Min .7 ( Aggregate)                |
| Bulk Density         | 1.50gm/cc +/-0.05                  |
| Color                | Grey and bieve                     |
| Abrasion resistance  | 250% improvement vs plain concrete |
| Adhesion to concrete | Monolithic bond                    |
| Form                 | Powder                             |

## HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical

## OTHER INDUSTRIAL FLOORING PRODUCTS AVAILABLE FROM CIL.

- ▶ **Rocfloor SB100** – solvent based epoxy Floor coating and excellent resistant to a wide range of chemicals.
- ▶ **RocFloor MH,EH&QH-** Mineral & Emery based dry shake floor hardner.
- ▶ **RocFloorSilicate** – Sodium silicate based concrete floor hardener and dustproofner.
- ▶ **RocFloor EP Primer-** Epoxy resin based floor sealer and bonding agent.
- ▶ **RocCoat SS-** water repellent silane siloxane for concrete and masonry.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Product representative or visit our website for current technical data and instructions.

### Disclaimer

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer? Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and CIL makes no claim that these tests or any other tests, accurately represent all environments.

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