



## *Hydrafloor RM*

### *Ready-Mixed Non-Metallic Floor-Hardener (Dry Shake)*

#### **Description**

Hydrafloor RM is a blend of washed, cleaned and dried quartz-particles sieved according to special formula supplied and pre-mixed with cement for immediate use.

Hydrafloor RM is used for improving wear-resistance of concrete floor-surfaces as also for reducing dust-formation, reduce permeability of surface to water, oils, mild chemicals, organic residue as also to facilitate cleaning and overall hygienic conditions on floor. Available in several attractive colors and with different rates of application depending on usage and requirements. Supplied either in pre-mixed form (with cement added and thus ready to use) or in bags with aggregates and other ingredients only and for cement to be added at site in accordance formulas provided below.

#### **Object**

Concrete floors in :

- General factories
- Processing rooms of food industries
- Warehouses with high traffic loads
- Factories with high loads from fork-lift trucks such as paper-mills, other such industries
- Aircraft hangars
- Garages

#### **Advantage**

- Increased compressive strength as also wear (abrasion) resistance of surface
- High density of surface material which provides for reduced permeability against various liquids

- Non-dusting, long life, and little maintenance costs
- Reduces wear on other equipment of Clients by reducing dust-formation and increases life-time of fork-lift trucks
- Good overall appearance with shiny surface

#### **Instruction for Use**

- Hydrafloor RM is applied on wet concrete during main concrete installation or in toppings of concrete or mortar screeds. Mortar screeds should generally have a minimum thickness of 40 mm for good results.
- For application of 4 kg mixed quantity or less, apply full quantity by spreading out the material by hand or by mechanical spreader over the concrete or mortar surface. This should be done when water sheen on surface has dispersed.
- Leave the mix on the floor and allow it to soak up moisture from concrete until surface can withstand light foot-traffic. Then power-trowel the surface with disc attached and using low speeds. Trowel by hand around edges and columns.
- The purpose of the power-floating is to mix in the particles of the hardener with the material of the main concrete or mortar screed so as to ensure a good bond between the two materials. Also to ensure the overall homogeneity of the floor-hardener material

- Once the cement in the hardener begins to get more stiff, use a power-troweller with blades attached. Begin by trowelling with blades fixed at low angles and gradually tilt up the angles as the cement sets. At final overpass with blades, surface will assume a highly shiny appearance.
- If there are colors in the Hydrafloor RM, it is to be noted that colors react with the water in the cements. The final result with regard to color will to a large extent depend on the workmanship and skills of applicator crew.
- Other factors that affect the quality of the installation is winds and draught around door-openings; if application is done outdoor or under roof, etc. Strong sunshine leads to a premature dehydration of the surface and it may be difficult to finish the surface on time without adding water, which affects the quality of the color.
- Curing should be done using Hydracure available from ACT.

### **Coverage**

Light Traffic	: 3 kg./sqm.
Medium Traffic	: 4 kg./sqm.
Heavy Traffic	: 5 kg./sqm.

### **Commissioning of Floor**

A floor which has received an application of Hydrafloor RM may be commissioned in accordance with requirements and generally depends on the curing of the concrete. Light foot-traffic may be allowed within 48-72 hours after application and heavier traffic depending on the compressive.

### **Maintenance and Repair**

Waxing of surface of Hydrafloor RM is recommended where a highly shiny polish is required or where spills of liquid agents (foods, etc) may be expected. If Hydrafloor RM is damaged due to very heavy point-loads or droppings of sharp and pointed objects or through other reasons, surface may be repaired using Hydratop available from ACT.

### **Storage**

Under roof and dry conditions.

### **Shelf-Life**

24 months in unopened containers

### **Precaution**

Eye-protection and gloves recommended. If material comes in contact with eye, rinse immediately with plenty of clean water without rubbing. If continued irritation, contact medical doctor.

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