



# EMALITE-RTU

**Ready Mixed Dry Shake Abrasion Resistant, Non-metallic Floor Hardener**

## DESCRIPTION

**EMALITE-RTU** is a ready-to-use factory processed and specially graded non-oxidising, non-metallic, non-magnetic aggregate dry shake surface hardener free from oil and grease.

## USES

**EMALITE-RTU** when trowelled into the surface of concrete floors forms a toughened, hard-wearing surface suitable for industrial use. It is ideally suitable for factory floors, warehouses, hangars and car parks, trucking lanes, ramps and spillways that are subjected to heavy traffic.

## FEATURES

- ◆ Provides built in wear resistance and produces a high abrasion resistant floor surface. The abrasion resistance of plain concrete is increased by  $\cong 200\%$  (tested as per IS:1237-1980) as Moh's scale hardness of aggregate is  $\geq 8$ .
- ◆ Impact resistance is twice that of plain concrete.
- ◆ Three times greater surface density than plain concrete which increases resistance to penetration by oil, grease, hydraulic fluids, ethylene glycol and many industrial chemicals.
- ◆ May be used for open and continuously wet areas.
- ◆ Non-rusting washable and easy maintenance.
- ◆ Fast construction with minimum site costs for materials handling and no bonding problems.
- ◆ At low w:c ratio the typical 28 days compressive strength of **EMALITE-RTU** cubes is over  $50\text{N/mm}^2$  (tested as per BS 1881 part 4 1970, Clause 2.)

## Composition

**EMALITE-RTU** combines graded mineral aggregates, Portland cement and plasticizing agents in a controlled mixed, ready to use product.

Colours : Standard colours such as buff, green, light grey. Other colours can be made to order.

## APPLICATION DATA

### **Flooring Concreting :**

The floor concrete should be structurally sound and placed in accordance with good concrete practices. The water : cement ratio should not exceed 0.5 and slump of 50-60 mm, with the need to produce a fully compacted concrete without excess water coming to the surface. Particular care must be taken at corners and edges of the bays, hand ramming and firm trowelling being carried out to ensure that the level can be maintained throughout the subsequent trowelling operations. The floor concrete can also be vacuum dewatered.

## APPLICATION

**EMALITE-RTU** should be broadcast in two equal stages, evenly over the surface of the freshly laid concrete as soon as the surface water has evaporated. Immediately after each stage of broadcasting of the **EMALITE-RTU**, the first trowelling should be carried out, either by hand or by means of a power float. When the surface has sufficiently stiffened, a second trowelling should be given to close any pores and remove any undulation on the surface. This should be followed by a final hand trowelling to remove any disc marks. The floor must be thoroughly cured by suitable curing method.

## COVERAGE/DOSAGE RATE

This varies from 3 kg - 9 kg per m<sup>2</sup> depending on the type of usage of the floor.

The recommended consumption figures are stated below.

Moderate duty	-	3-3.5 kg/m <sup>2</sup>
Heavy duty	-	4-5 kg/m <sup>2</sup>
Extra Heavy duty	-	7-8 kg/m <sup>2</sup>

## PACKING

**EMALITE-RTU** is supplied ready to use in 25 kg polyethylene lined Waterproof HDP Bags.

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### **TECHNICAL SERVICE :**

*SWC group maintains a technical division with highly qualified technical personnel to investigate and advise on subjects related to Concrete and the Construction Industry. The Division can advise on the correct use and selection of right products at the right place.*

*SWC undertakes Consultancy Service for diagnosis and rehabilitation of distressed structures. SWC undertakes Contracts on turnkey basis for total Waterproofing System with guarantee*

**NOTE :** This Technical data sheet is to be used as guidance only. Although the basic formulation of the product remains unchanged, production refinements arising from continuing research and evaluation programmes may occasionally result in marginal change in properties. The recommendation and properties of the product based on continuous monitoring of the product are not intended to infringe on other patents.

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