

# ARMORTOP HD200

## Dry Shake Surface Hardener

### Product Description:

**ARMORTOP HD200** is a hard wearing, factory blended ready to use cementitious system with special fillers that hardens freshly poured concrete. It is typically applied as a dry shake over freshly placed concrete in light-industrial, commercial, Loading bays, Factories, Warehouse, Car Park, Trucking Lanes, Workshops, Garages, Subways, Power Stations & Abattoirs.

### Primary Applications:

**ARMORTOP HD200** provide a highly abrasion resistant surface for concrete floors by the dry shake- on method which ensures that the hardwearing surface bonds monolithically to the base concrete. They are ideally suited for all industrial areas subject to light or heavy traffic,

### Features/Benefits:

- Provides a hard wearing abrasion resistant.
- High density and maintenance free
- Durable surfaces
- Forms monolithic bond with base concrete
- Light-fast, UV resistant.
- Water, oil and other contaminants resistant.

### Packaging:

**ARMORTOP HD200** is packaged in 55 lb (25 kg) pails

### Shelf Life:

2 Years in original, unopened container

### Coverage:

For light duty sprinkle 3 kg/m<sup>2</sup> and for heavy duty sprinkle 7 kg/m<sup>2</sup>. However the optimum sprinkling rate is 5 kg/m<sup>2</sup>

### Specification/Compliances:

- ASTM C 979

### Direction for use:

**APPLICATION:** Base Concrete: The base concrete should have a minimum cement content of 300 kg/m<sup>3</sup> with low slump of 40-60mm. This improves the quality of concrete mix and enables low w/c ratio to be kept. By using **Hydroplast 200**, workability of base concrete can be improved with a low w/c 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 trowel operations. If too much of free water is seen on the

surface, water content in subsequent concrete must be reduced to obviate the presence of free water. The time of the application is very important in order to derive full benefits of **ARMORTOP HD 200** If **ARMOTOP HD200** is applied too early, it will absorb water, and hard wearing aggregate may sink to the bottom. If application of **ARMORTOP HD200** is delayed, no moisture from the concrete surface will be available to hydrate **ARMORTOP HD200**, resulting in poor pitted surface. As a guide, the application should be made between 1 Hours-1.5 Hour or when 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 rate is 5 kg/m<sup>2</sup> of **ARMORTOP HD200** Powder.

The application is made in two stages: 1) First 50% of the required material is broadcast evenly and when the surface darkens with the absorption of water, the surface is floated. 2) The second application is made immediately, by evenly broadcasting the balance 50% material and when the surface has darkened with the absorption of water, the surface is floated. Power floating would be ideal. Floating is recommended with half or full disc. The second troweling is done after the surface has sufficiently stiffened i.e. after two hours after the first troweling, to close any pores and remove any undulations on the surface. Final hand troweling is recommended to remove any disc marks. For additional technical support please contact us or your local distributor for Armorsil Incorporation.

Application Rate (kg/m <sup>2</sup> )	Intended Traffic Use	Avg. Wear (IS:1237-1980)
7.0	Heavy	< 2mm
5.0	Medium	> 2 < 3.5mm
3.0	Light	> 3.5 < 4mm

**Curing:** After final troweling, as soon as the surface has hardened sufficiently, to prevent damage, it should be covered with a polythene sheet and made air tight by placing sand all-round the sheet for a minimum period of 7 days. Alternatively curing by ponding is recommended for a minimum 7 days.



**ARMORSIL MANUFACTURING INCORPORATION**

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