

ARMORTOP- HD100

Dry Shake Surface Hardener

Product Description:

ARMORTOP-HD100 is a hard-wearing, factory blended ready to use cementitious system with a blend of 100% pure emery-tuff and special fillers that hardens freshly poured concrete. It is typically applied as a dry shake over freshly placed concrete in industrial, commercial, Loading bays, Factories, Warehouse, Car Park, Trucking Lanes, Workshops, Garages, Subways, Power Stations & Abattoirs.

ARMORTOP-HD100 is non-corrosive and can be used inside and outside and offers a superior alternative to metallic floor hardeners. **ARMORTOP-HD100** will provide harder, denser and more abrasion resistant floor.

Primary Applications:

ARMORTOP-HD100 provides 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 hardwearing abrasion resistant surface
- Significantly increases the life of concrete over that of untreated concrete
- Resist penetration by oil, grease and other contaminants
- Increases anti dusting properties of the concrete
- Forms monolithic bond with base concrete
- Light-fast, UV resistant
- Water, oil and other contaminants resistant.

Packaging:

ARMORTOP-HD100 is packaged in 55 lb (25 kg) and 20kg pails

Shelf Life:

2 Years in original, unopened container

Coverage:

For light duty sprinkle 3 kg/m² and for heavy duty sprinkle 7 kg/m². However, the optimum sprinkling rate is 5 kg/m²

Specification/Compliances:

Compressive Strength	-	ASTM C-109, 82.7 MPA in 28 days.
Moh Hardness	-	8-9 (Diamond is 10)
Abrasion Resistance	-	ASTM C-944

Direction for use:

APPLICATION: Base Concrete: The base concrete should have a minimum cement content of 300 kg/m³ 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.

Application Of ARMORTOP-HD100: The time of the application is very important in order to derive full benefits of **ARMORTOP-HD100**. If **ARMORTOP-HD100** is applied too early, it will absorb water, and hard wearing aggregate may sink to the bottom. If application of **ARMORTOP-HD100** is delayed, no moisture from the concrete surface will be available to hydrate **ARMORTOP-HD100**, resulting in poor pitted surface. As a guide, the application should be made between 1 Hour-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/m² of **ARMORTOP-HD100** 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 ²)	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.

Health and Safety:

ARMORTOP 200HD contains cement that when in contact with bodily fluid may cause irritation and other allergic reaction to those predisposed. Safety gloves and goggles should be worn when mixing or applying **ARMORDECO**. If **ARMORTOP 200HD** comes in contact with bodily fluid or eyes rinse immediately with copious amount of water and seek medical attention immediately. Please refer to the most recent MSDS for more information.



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