

Maxx Hardtop - Metallic

Metallic based, monolithic floor hardner

Description :-

Maxx Hardtop Metallic is pre – mixed, dry shake surface hardner which is ready to use on site. It consist of specially selected & graded metallic aggregates, Portland cement & special additives to improve workability.

Uses :-

- Storage areas subjected to heavy loads.
- Garages
- Trucking lanes
- Warehouses
- Machine shops. Etc....

Benefits :-

- Ready to use, factory controlled, eliminates on site mixing.
- Dense, non porous surface, hard wearing, abrasion resistant surface.
- Resistant to penetration of oil, grease etc..
- Monolithic bond with the base concrete.
- Non dusty & easy cleaning.

Properties

Abrasion Resistance :- Maxx Hardtop Metallic has been tested with abrasion machine using silicon carbide wheels. The result shows that Maxx Hardtop Metallic improves the abrasion resistance compared to grano by over 150%

Compressive Strength :- The Maxx Hardtop Metallic cubes when tested for 28 days compressive strength of Maxx Metallic Top is 60 N/mm²

Application:-

Base Concrete :- The base concrete should have a minimum cement content of 300 kg/ m³ with low slump of 40 – 60 mm.

Application of Maxx Hardtop Metallic can begin when the base concrete has stiffened to the point when light foot traffic leaves an imprint of about 3 – 6 mm. Any bleed water should now have evaporated.

Maxx Hardtop Metallic is applied in two stages.

- a) First 50% of the required material is broadcast evenly & when the surface darkens with the absorption of water from the concrete this application can be floated. It is important however that the surface is not over worked.
- b) Immediately after floating the remaining Maxx Hardtop Metallic is sprinkled & can be floated in the same way as before.

Final finishing of the floor using a power trowel can be carried out when the floor has stiffened sufficiently, so that damage will not be caused.

Timing of application

The timing of Maxx Hardtop Metallic is important. If too early the excess water will be absorbed & the resultant floor surface will be of lower strength & subjected to dusting. Also the dense metallic aggregate of Maxx Hardtop Metallic could sink & be lost from the surface. If too late insufficient moisture will be available to completely hydrate the Maxx Hardtop Metallic particles. Debonding & pitting of the surface are likely to result later.

Maxx Hardtop Metallic is applied for different types of industrial use.

- Light Traffic -3.0 kg/sq.m
- Medium Traffic - 5.0 kg/sq.m
- Heavy Traffic - 7.0 kg/sq.m

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

Shelf Life – 12 Months if stored in a dry enclosed area & un open.

Packaging – Maxx Hardtop Metallic is supplied in sealed 25 Kg HDPE bag.

Health & Safety – Maxx Hardtop Metallic contains portland cement & is therefore alkaline when in contact with water. Avoid prolonged contact with skin. Any eye contamination should be washed immediately with plenty of clean water & take medical advice.