HARDONATE METALTOP
Non-Oxidizing Dry Shake Metallic Floor Hardener

DESCRIPTION

HARDONATE METALTOP is a specially prepared graded, non-oxidizing metallic aggregate based floor hardener designed for use in industrial pavings and floors to produce heavy duty, dense and tough floor surfaces able to withstand wear, abrasion and dusting. **HARDONATE METALTOP** floors resist the penetration of oils, grease, industrial chemicals and other aggressive liquids.

*"**HARDONATE METALTOP** is graded, processed, non-oxidizing, non-rusting, inert metallic aggregate based floor hardener compatible with ordinary Portland cement."*

USES:

HARDONATE METALTOP is recommended for use on all interior and exterior surfaces where hard, dust free, wear and abrasion resistant surfaces are required. Some typical application areas are as followings;

- INDUSTRIAL FLOORS
- WAREHOUSES
- AIRCRAFT HANGARS
- LOADING BAYS
- CAR PARKS
- POWER PLANTS
- CHEMICAL PLANTS
- WORK SHOPS
- SHIPYARDS
- HELIPADS
- REFINERIES
- BAKERIES

FEATURES & BENEFITS:

- IMPACT RESISTANT
- NON STAIN
- HARD WEARING
- NON-RUSTING
- SKID RESISTANT
- DUST PROOF
- ABRASION RESISTANT
- ECONOMICAL IN LONG RUN
- LONG LIFE
- NO GRINDING/POLISHING
- NO MAINTENANCE
- CHEMICAL RESISTANT
- DECORATIVE

METHOD OF APPLICATION:

HARDONATE METALTOP topping is laid over fresh concrete. The base concrete should be designed to have a minimum cement content of 320 Kg per m^3, with low water cement ratio. The base concrete should be placed in accordance with good concrete practice and extra care should be exercised at corners and edges to obtain good compaction.

DRY SHAKE APPLICATION:

1. The base floor slab is laid as per design specifications.
2. The base slab should be leveled and well compacted and should be free of any chloride based admixtures and air entraining agents.
3. Remove any excess water and wood float to open the surface.
4. Evenly sprinkle by hand. 2/3rd of the **HARDONATE METALTOP** dry mix and wait till it absorbs moisture from the concrete underneath.
5. Once the surface has achieved a uniform dark color, wood float it and then sprinkle the remaining 1/3rd quantity of **HARDONATE METALTOP** Dry mix.
6. Again wait for the surface to absorb enough moisture and then even out and float with a wooden trowel.
7. The surface is given the required finish and texture by flat steel trowelling followed by a raised steel trowelling. The final trowelling should be delayed for as long as possible and should be continued till the surface is completely closed and smooth glass like finish is obtained.
8. Use of mechanical trowels will produce the best results.

CURING:

HARDONATE METALTOP should be cured for at least 14 days with a spray of clean water a suitable curing compound such as Mitchell Hardocure. During the curing period the

LG 08, Al Ghani Arcade, Main G.T. Road, DHA II, Islamabad,
(TEL):+92-51-4493348, +92-51-4493349 (Fax): +92-51-4493347
Sales@mitchellpakistan.com, www.mitchellpakistan.com

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surface should be protected from traffic and other potential hazards.

COVERAGE:

1 kg / SFT for 5 mm topping

MODERATE DUTY	7-9 Kg/m^2
HEAVY DUTY	9-12 Kg/m^2
CONCENTRATED TRAFFIC	12-15 Kg/m^2
EXTRA HEAVY DUTY	+15 Kg/m^2

The above coverage rates are for guidance only.

STORAGE:

HARDONATE METALTOP will retain its properties for at least 12 months when kept in the original packing.

PACKAGING:

50 Kg bags.

COMPLIANCES:

Complies with the abrasion resistance requirements of ASTM C944.

PRECAUTIONS

- Do not apply over concrete containing calcium chloride.
- Do not apply over concrete containing aggregate contaminated with salt or salt water.
- Do not apply over concrete containing free water on the surface.
- Do not add water for finishing purposes.
- Do not apply over concrete containing more than 3% entrained air
- Use only admixtures which are approved by Mitchell.
- This product contains cement which may cause irritation. Avoid contact with eyes and prolonged contact with skin.

TECHNICAL ASSISTANCE:

For further details and assistance for specific application requirements and for other product information please contact Mitchell.

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