

HardRock

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Premixed non metallic floor hardener, inorganic base.

Description:	HardRock is premixed powder, non-metallic floor hardener, and ready to use. It consists of very hard granular materials, polymer, special chemicals and selected Portland cement.
Applications:	For special reinforcing of floor and slab surfacing in order to increase the resistance to abrasion and hence to reduce the formations of dust to severe mechanical wear such as: warehouses, quays, parking lots and mechanical engineering workshop, ...
Advantage:	<ul style="list-style-type: none"> • Premixed, easy apply, high and consistent quality. • Improves resistance to abrasion. • Improves resistance to impact. • Improves resistance to oils and greases. • Improves smoothness. • Reduces dust formation.

PRODUCT DATA

Compressive strength:	$\geq 65 \text{ N/mm}^2$ at 28 days.
Mohs hardness of aggregate:	≥ 7 (steel score).
Chemical resistance:	Hardened HardRock improves better resistance to oils and greases after full curing time. However, HardRock have similar limitations of chemical resistance as other cement based cementitious products.
Supply form:	Dry powder.
Color:	Natural Grey, white grey, green.
Bulk density:	1.4 kg/L.
Packaging:	25 kg/bag (bag with polyethylene liners).
Consumption:	3.0 ÷ 3.5 kg/m ² for walking area. 4.0 ÷ 4.5 kg/m ² for normal traffic area. 5.0 ÷ 5.5 kg/m ² for heavy traffic area.

Waiting time for working:

Depending on the ambient temperatures and the type of cement and admixture used in the concrete, the waiting time for working of substrate can be vary a little. However, in the general condition, the waiting time should be as follow (for different using conditions):

- Pedestrian traffic: 2 ÷ 3 days.
- Light traffic: 7 ÷ 10 days.
- Normal traffic: 28 days.

Storage: As a basic rule it is recommended to store HardRock hardener in a dry and cool places. Do not stack more than 10 bags vertically.

Shelf life: HardRock hardener powder has a shelf life of at least 12 months from the date of production with right storage conditions and unopened bag.

APPLICATION

Preparation: Concrete mix design must be corresponding with using purpose. The vibrating and leveling work should be in right way to get optimum result.

Placing: HardRock should be applied in two layers by hand. Approximately 2/3 of quantity should be applied in the first layer and the balance in the second one. After the concrete has been evaporation of bleeding water, the preliminary floating is applied to leveling the surface and preventing cement slurry from concrete onto hardener in later time. Disperse the HardRock powder evenly by hand on the floor surface after preliminary floating. Should apply first on floor areas where the concrete is likely to loose moisture rapidly such as: near by walls, columns, joints and doorways... After the applied HardRock powder darkens in color indicating absorption of moisture from the concrete and when concrete has stiffened enough to prevent the float blades from digging into the surface, float the applied surface areas using power floats. Float just enough to bring the excess moisture to the surface. Apply second layer continuously as the first layer. Dispersing the remaining quantity of HardRock evenly on the first layer surface by hand, compensating with extra material over areas under-applied during the first dispersing. As soon as the second layer has darkened by moisture absorption, float the surface with a power trowel equipped with float blades or disc floats.

Smooth finishing: For the superior smooth finish, trowel again after further stiffening of the surface with slightly raised blades, but avoid raising them to angle that creates chatter marks or blisters on the surface. If either starts to appear, remove them by reducing the angle of trowel.

Curing: Start curing immediately after work, using a liquid membrane-curing compound such as BestCure to prevent rapid evaporation of water to avoid surface split or spotted formation.

Safety: HardRock is non toxic but alkaline like normal cement and can cause irritation with sensitive skin. Gloves, mask, goggles should always be worn .

Disclaimer: The technical information and application instructions in documents of BESTMIX are based on BESTMIX's current knowledge and practical experience. The information here only describes the general nature of the product, so users should test the product for each purpose. BESTMIX has the right to change the features of our product, user must always refer to the latest technology product.

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