

HighBuild SH

Dry shake, quartz based surface hardener

Product Description

HighBuild SH is a premixed dry shake floor hardener for concrete and screed floors. HighBuild SH is formulated from selected quartz aggregate, cement-based, chemical admixture, provide resistance and high strength against wearing-impact and it is applied on fresh concrete.

Areas of Application

- Loading-unloading areas, warehouses, docks, shipyards and parking areas.
- Concrete roads.
- Workshops.
- Service stations.
- Airplane hangars, helipads, underground train stations.



Advantages

- High resistance to wearing and abrasion.
- Easy to apply.
- Provides monolithic floor.
- Non metallic floor hardener.
- Premixed, ready to use.
- Pedestrian ways, sidewalk, park-gardens, underground passages.
- Parking lot, garage, vehicle maintenance and gas station.
- Factories, power plants, mechanical workshops.
- Schools, malls, new joints of the houses and commercial buildings.
- Reduces surface dust.
- Concrete roads.



Disposal

Empty packages can be thrown to the collection bins according to regional-local regulations or recycling rules. After drying up and hardening the used waste material, throw it away as construction waste material. It is dangerous to dispose of product wastes by burning them.

Points to Take into Consideration

Keep the products in places out of reach of children. Always keep the cover of the products closed. It is recommended to wear gloves and goggles during operation. In case of contact of skin with the material, it should be washed with soap and water immediately. In case of contact with the eye, see your doctor immediately.

General Considerations

Above-mentioned product information and descriptions are prepared for guidance purposes as a result of our experiences and meticulous studies. The variety of related materials and their different construction and operation conditions can not be controlled or influenced by us individually. For applications beyond our control, the guarantee status is only limited to the quality of sold product. Except the manufacturing of the product, no guarantee is given for application. This technical sheet invalidates all the existing sheets. The quality of the performed job may vary depending on your professional use of the product. If you are hesitant, make a little test or get technical help.

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Method of use

Surface preparation

- HighBuild SH should be applied when a 3-6 mm thickness of foot print is left on the surface upon stepping down on the concrete.
- There shouldn't be much water on the surface. Accumulated water must be taken away from the surface and it must be moist.
- 2/3 of the material that will be used is spread on the surface homogeneously and waited for every part of it to become evenly moist (color change should be observed).
- First floating application should start, when a uniform dark color appears (indicating material is wet). Either mechanical or manual floating can be used depending on area to be floated and the required finish.
- Material is fed into the concrete by tray glazing and concrete integration is ensured. Rest of the 1/3 material part is spread on the surface homogeneously the same way and waited for every part of it to become evenly moist (color change). Then, it is fed into the surface and glazed.
- After a surface hardness that allows walking on it is obtained, finishing glaze is done on the material in order to get a quality surface.
- Any wetting of the first or second application of HighBuild SH with water addition will affect the overall quality of the floor.
- When HighBuild SH application is over, it is recommended to use Ridge Cure material in order to prevent early drying and wet shrinkage cracks and increase surface performance.

Technical Data

Property:	
Colour	grey, red, green and desired special colors
Opening for Traffic Pedestrian traffic Vehicle traffic	1 – 2 days 7 – 15 days
Abrasion resistance: Improvement over 25 MPa concrete using Taber abrader machine in accordance with ASTM D4060 fitted with H22 wheel, 1000gr/1000 cycle	560% compared to a conventional concrete
Compressive strength: (wet cure) mortar consistency, ASTM C109/ 109 M-02	~ 72 Mpa @ 28 days
Service Temperature	-40 to +80 °C
Hardness:	7 (Mohs scale)

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Consumption

HighBuild SH should be applied at the following rates:

Normal rate 1.5 to 2.5 Kg/m²

Heavy duty floors 3 to 5 Kg/m²

Storage

Its shelf life is approximately 24 months in a cool and dry place. It should be stored provided that maximum 6 sacks are on top of each other.

Fire

HighBuild SH is nonflammable

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