

TOPHARD 100

Mineral Based Dry Shake Floor Hardener

Description

TOPHARD 100 is a pre-mixed dry shake floor hardener. It is a blend of hydraulic binder, mineral non-metallic aggregates and selected additives to provide optimum performance when applied to fresh concrete floors.

TOPHARD 100 will provide continuous protection to concrete floors against wear, impact and abrasion. It is an economical concrete floor hardener recommended for both interior and exterior use. It is particularly valuable because of its non-rusting characteristics when floors will be frequently wet.

TOPHARD 100 will impart long life and high durability to interior and exterior concrete floors.

Features & Benefits

- Hardens concrete in one economical operation
- Use of hard and properly graded aggregates increases the wear resistance over plain concrete floors
- Ready-to-use factory blend eliminates messy and expensive job mixing and minimizes errors
- Non-rusting materials make it possible to use outdoors as well as indoors
- Dispersing agents contained in TOPHARD 100 makes it possible to incorporate into the surface of low slump concretes resulting in exceptionally high surface strengths for maximum wear resistance

Uses

TOPHARD 100 can be used in:

- Lobbies and waiting rooms of commercial and public buildings
- Corridors and washrooms in institutional and public buildings
- Auto showrooms and service centers
- Factory and warehouse floors
- Commercial and industrial facilities
- Restaurants and dairies
- Aircraft hangers
- Parking areas

Technical Properties

Appearance	Granulated Powder
Color	Dark Grey, cement grey, Red & Green
Hardness (Aggregate)	7 (Mohs scale)
Average rate of abrasion (Dorry abrasion machine)	0.24 grams/min
Compressive Strength	65 N/mm ² @ 7days 80 N/mm ² @ 28 days
Relative abrasion resistance (ASTM C779) @ 30min test	0.48mm (@ 7 days 0.33mm @ 28 days
Curing	Required
VOC	<1.0 g/L

All values are subject to 5-10% tolerance

Standards Compliance

- ASTM C 944
- ASTM C 779

Application Procedures

Surface preparation:

Use applicable and finish able nonbleeding concrete mix of required strength design, with minimum slump 75 mm at site and no more than 3% entrained air. The surface is then floated with a wooden or aluminum float. After casting, any bleeding water from the concrete should be removed. Joints should be created regularly to prevent cracks.

Application Instructions:

When concrete is prepared, Sprinkle **TOPHARD 100** along edges of bags (approx. 100 mm strips) where expansion and contraction joints will be located first. Float into surface using a wooden float.

As soon as the concrete is firm enough to support the weight of the workman, apply the first shake of **TOPHARD 100**. Use up to 2/3 of the total shake mix in the first application. Treat areas adjacent to walls and columns first. Spread the material evenly by sprinkling at right angles in two pass close to floor level. Allow applied

material to absorb moisture from the concrete surface. Uniform darker colour will be apparent.

Using a wooden float, float **TOPHARD 100** into the concrete ensuring material becomes an integral part of the surface.

Follow second floating immediately after first floating. Employ the balance of the material, follow promptly with second floating using wood or aluminum float or power float in case of large areas. A third power floating may follow for added compaction, if required.

Note: If coarse non-slip finish is required, do not proceed with further floating or troweling operations after second floating but allow the surface to cure.

Curing

Curing should be carried out immediately after the final troweling operation has been completed. Apply the recommended curing compound for the type of surface and floor used, select suitable product from the ULTRACURE curing compounds range.

Coverage

TOPHARD 100 shall be applied at the following rates:

Heavy Duty	8-9 kg/m ²
Medium Duty	6-8 kg/m ²
Light Duty	4-6 kg/m ²

Packaging

TOPHARD 100 is available in 25kg bags

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

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