

# TOPHARD 200

## Non-Metallic Dry Shake Floor Hardener

### Description

**TOPHARD 200** is a ready to use blend of hydraulic binder, special emery aggregates and selected additives to provide optimum performance when applied to fresh concrete floors. **TOPHARD 200** will provide continuous protection to concrete floors against wear, impact and abrasion. In addition. It is a wear resistant 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 200** is applied by dry shake method to ensure that top hard-wearing surface bonds monolithically to the concrete flooring.

### Features & Benefits

- Hardens concrete in one economical operation
- Premixed, ready to use offering factory-controlled quality assurance.
- Easy to apply.
- High abrasion and impact resistance.
- Non-metallic aggregates, will not rust when wet
- Slip-resistant finish can be obtained.
- High resistance to chemicals and petroleum-based products.
- For internal and external use.

### Uses

**TOPHARD 200** 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
- Powder stations
- Loading bays
- Parking areas

### Technical Properties

Appearance	Granulated Powder
Color	Dark Grey, cement grey, Red & Green
Hardness (Aggregate)	7 (Mohs scale)
Taber Abraser Testing @ 7days (ASTM C1353)	1.34 grams
Impact Resistance MIL-D-3134 J	0.15mm- no sign of crack or disbanding was observed
Compressive Strength	80 N/mm <sup>2</sup> @ 7days 100 N/mm <sup>2</sup> @ 28 days
Relative abrasion resistance (ASTM C779) @ 30min test	0.41mm (@ 7 days 0.38mm @ 28 days
Curing	Required
VOC	<1.0 g/L

All values are subject to 5-10% tolerance

### Standards Compliance

- ASTM C 944
- ASTM C 1353 & C779

### 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 200** 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 200**. 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 200** 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 toweling operations after second floating but allow the surface to cure.

## Curing

Curing should be carried out immediately after the final toweling 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 200** shall be applied at a rate from 3- 7kg per sq. meter.

## Packaging

**TOPHARD 200** 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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