



Features

HardTop N is a natural wear resistant aggregate based, ready-to-use dry shake hardener. It is a combination of factory premixed, assorted hardening particles, additives, cement and colouring pigments.

The material is designed for increasing the abrasion resistance and imparting aesthetic characteristics to the freshly laid monolith concrete floors.

Key features include:

 Wear Resistance Durable floors	 High Strength High durability Low maintenance cost
 High Bonding Better adhesion	 Lower Dimensional Shrinkage Fewer cracks in concrete
 Water Repellence Moisture ingress & stain protection	 Extensively Tested at Factory Quality assured
 High Adhesion to Substrate Less peeling off High bonding	 Low Requirement of Curing Less supervision required at site

The FreeForm HardTop material is available in customizable colour options. All materials are non-oxidizing. Other options with extreme wear resistance are also available.

Application

The HardTop material can be adapted for use in several different applications and for different final finishes. It is sprayed on wet and fresh concrete installations to give a value added finish. Applications include all interior high traffic floors, malls, multiplexes, light vehicular traffic area with high number of vehicles like car parks, basements, golf cart roads and factory shed topping.

Appearance

Material is supplied as pre-mixed in dry powder form.

Specifications

Max. Aggregate Size	Compressive Strength
3 mm	>40 N/mm ²
Flexure Strength	Bulk Density
>4 N/mm ²	~1520 kg/m ³
Wet Density	Water Requirement
~2200 kg/m ³	Water from base concrete is used
Output/Coverage	
4 to 6 kg of material is normally used per sq. metre	
Work Time	
Depends on the WC ratio in the concrete and free water on concrete during casting	

Application Thickness

2 to 5mm depending on application.

Base Surface Preparation

- A. Place and consolidate non-air entrained concrete containing air de-entrainer if required. Maximum air content shall be 3.0%.
- B. Hand or mechanically screed concrete.
- C. If temperature is high or conditions windy, evaporation retarder may have to be used in concrete after concrete placement or after any floating operation as required to prevent surface from drying out prematurely from jobsite conditions.
- D. Use bullfloat or highway straight edge to flatten the surface and remove imperfections taking care to not close the surface of the concrete.

Application/Installation Method

Please refer to separate sheet for guidance on application method.

Curing

Quick evaporation from the surface must be adequately prevented. Curing as required for the base concrete.

Grinding/Other Finish

Possible to finish off with a basic polish or brushed finish or even a shotblasted surface or may be fine polished to a mirror polish.

After Protection

Further densification and sealing also possible using other products from FreeForm Protect and Seal range. Use only pH neutral cleaners.

Open to Traffic

The floor can be opened to traffic based on recommendations of opening to traffic of base concrete, normally—

Pedestrian traffic: 2 days

Light traffic: 7 days

Intended normal traffic: 28 day

Packing

25 kg bag

Shelf Life

3 months from date of packing

Precautions

Should be stored away from water. Use materials from different packs to reduce chance of any shade variation. Keep WC ratio and Curing conditions consistent to reduce chances of shade variation.

Technical Support

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Disclaimer

Any recommendations for application techniques are based on experiences. It is advisable to adapt processing techniques and material quantities to the given local conditions and we refer in this context to our general terms of sale and delivery. Hairline crack formation or deformation by shrinkage on principle cannot be excluded with the offered system and thus are not considered as technical defect. Coloured products are exclusively produced from natural raw materials. Thus, colour deviations cannot be excluded. The printed colour may deviate from the original colour shade. Test areas are strongly recommended before usage/execution in larger areas.

Health Precautions

This product contains cement and has an alkaline reaction with moisture/water. Adequately protect hands and eyes. In case of contact with eyes consult doctor immediately.