



TechnoKem
tailor made

Techno TopCrete 300

High performance, Dry shake, Non-metallic Floor Hardener

Product Description

Techno TopCrete 300 is a premixed, non-rusting floor hardener used to form monolithic hardened concrete floors. Special hardwearing additives of Mohs scale around 9 ensures superior performance of floor surface when subjected to traffic. It provides abrasion resistant surface and inhibit rust formation.

Uses

TechnoTopCrete 300 is recommended for treating floor areas, where superior abrasion resistant is desired to minimise dusting, and maintenance, but not exposed to chemical attack.

Application areas include;

- Aircraft hangers
- Basement and cellars
- Mechanical workshops
- Garage for light vehicles
- Storage rooms
- Corridors and halls
- Parking areas and Loading platforms

Advantages

Techno TopCrete 300 provides a hardwearing surface on the concrete floors. This reduces the rate of abrasion from the pedestrian and vehicular movement and increases the service life of the concrete floor.

- Easy to use
- Most economical to use
- Non metallic - Do not rust

Typical Properties

Hardness (Aggregates) : 8 - 9 Mohs Scale

Indentation resistance : <1.5mm (as per BS 8204)

Direction to use

The design and construction of the floor should be adequate to withstand the traffic, impact and likely to be exposed

Placing

Drier area tends to crack or delaminate, leaving less water available for subsequent shake passes. Mark the floor areas into bays of convenient size and keep the required quantity of Techno TopCrete 300 ready for each bay.

Surface Preparation

Pump, place or otherwise convey the base concrete at a slump not in excess of 120 mm for a slab on grade. After the concrete has been placed, screed immediately; then bull-float/ straight edge the surface. Allow bleed water to rise to surface. Early moisture loss and rapid setting around the perimeter of the slab are typical. Monitor them closely for proper timing of the floating operations

First shake on application

After the evaporation of bleed-water, broadcast the powder evenly by hand to obtain a uniformly thick application. Do not throw or broadcast with a shovel.

When the applied TechnoTopCrete 300 darkens in colour indicating absorption of moisture and when the concrete has stiffened enough to prevent disk float from digging into the surface, float the treated surface using wooden hand float mechanical float fitted with float blades.

Second shake on application

Follow with the second application of TechnoTopCrete 300 exactly as the first application, but while broadcasting, perpendicular direction to the first shake on is recommended. If a coarse non-slip surface is desired, start curing without any more finishing operations

Finishing

The extent of further floating or trowelling depends upon the finish desired on the surface. Different levels of smoothness can be achieved by repeated troweling using power trowel and gradually increasing the blade angle in each repeat troweling. Consult your Technokem representative for advice

Curing

Start curing immediately after final finishing using our membrane curing compound such as Techno Cure WB. Barricade the area after the application of curing compound dries, cover the floor surface to protect it from staining and discolouration or physical damage

Precautions

During hot, dry or windy conditions troweling should be kept to the minimum to obtain the required finish.

All moisture used to incorporate dry-shake material must come from within the slab. Under no circumstances should water be applied to aid in the incorporation of dry shake.

If coloured floor hardener is warranted, it is strongly advised to carry out a sample area before finalization of supply order.

Clean the tools and equipment with water before the paste sticking to them hardens.

Coverage

The rate of application of Techno TopCrete 300 depends on the service conditions, which the floor will be exposed to.

The recommended rates of application are as below.

For Heavy-duty traffic : 5 - 7kg/m²

For Medium duty traffic : 4 - 5kg/m²

For Light duty traffic : 3 - 4kg/m²

Packaging

Techno TopCrete 300 is supplied in 25kgs HDPE moisture resistant bags

Shelf Life

9 months if kept in a dry store in the original, unopened bags. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced.

Health & Safety

Techno TopCrete 300 contains portland cement and are therefore alkaline when in contact with water.

Prolonged contact with the skin should be avoided. Any eye contamination should be washed immediately with plenty of clean water and medical advice sought.

Fire

Techno TopCrete 300 is non-flammable

Important: Technokem products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, Technokem does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.

For Complaints/Suggestions:

Please write to our Customer Care Executive at

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