

# TECFLOOR<sup>®</sup> HTS

High Abrasion Resistance, Non-metallic Floor Hardener



TECFLOOR<sup>®</sup> HTS is a premixed, non-rusting floor hardener used to form monolithic hardened concrete floors. Special Quartz and abrasive grits of Moh's scale around 8 ensures high performance of floor surface when subjected to traffic.

It provides abrasion resistant surface and inhibits rust formation.

## Uses

TECFLOOR<sup>®</sup> HTS is recommended for treating floor areas, where superior abrasion resistance is desired to minimise dusting, and maintenance, but not exposed to chemical attack. Application areas include:

- Aircraft hangers
- Mechanical workshops and factories
- Shopping Malls
- Restaurants
- Storage Rooms
- Corridors and halls
- Basement and cellars
- Garage for light vehicles
- Parking areas and loading platforms

## Benefits

TECFLOOR<sup>®</sup> HTS 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 economical
- Non-metallic - Does not rust or stain
- Forms monolithic bond with substrate
- Provides hard abrasion resistant surface

## Properties

<b>Hardness (Aggregates)</b>	7-8 (Moh's Scale)
<b>Indentation Resistance</b>	<2mm (As per BS 8204)
<b>Improvement in Abrasion Resistance (Resistance to wear) IS 1237: 1980</b>	150% over control

## Instructions for Use

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

## 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.

## 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 TECFLOOR<sup>®</sup> HTS ready for each bay.

## 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 TECFLOOR<sup>®</sup> HTS 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 TECFLOOR<sup>®</sup> HTS as 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 Thermax representative for advice.

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## 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.

## Curing

Start curing immediately after final finishing using our membrane curing compound such as MAXCURE<sup>®</sup> CC 75. Barricade the area after the application of curing compound dries, cover the floor surface to protect it from staining and discoloration or physical damage.

### Note:

For large areas of application construction joints in the concrete floor has to be provided and filled with appropriate joint sealant to eliminate shrinkage cracks.

## Health & Safety Instructions

TECFLOOR<sup>®</sup> HTS 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

TECFLOOR<sup>®</sup> HTS is not flammable.

## Storage

### Shelf life

6 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.

## Packing

TECFLOOR<sup>®</sup> HTS is supplied in 30 kg moisture resistant bags.

## Coverage

The rate of application of TECFLOOR<sup>®</sup> HTS depends on the service conditions, which the floor will be exposed to. The recommended rates of application are as below

For heavy-duty traffic: 5-7 kg/m<sup>2</sup>

For medium-duty traffic: 4-5 kg/m<sup>2</sup>

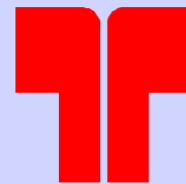
For light-duty traffic: 3-4 kg/m<sup>2</sup>

## Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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