

## **FLOOR-TECH H.B.**

### **Two Component Solvent Free Epoxy Coating**



**Thortex Floor-Tech H.B.** is a high performance solvent free ceramic reinforced heavy duty coating designed for use for long term floor protection.

**Thortex Floor-Tech H.B.** is based on a unique blend of epoxy resins and polyamino amine adducts reinforced with a blend of inert pigments and inorganic ceramic particles to produce the optimum level of adhesion, abrasion, impact and chemical resistance which will provide excellent long term protection to industrial floors operating within aggressive environments.

**Thortex Floor-Tech H.B.** is simple, safe and easy to use, provides a seamless easy to clean surface and is ideal for use in dairies, breweries, canteens, food factories, pharmaceutical plants and warehouses.

**Before proceeding, please read the following information carefully to ensure that the correct application procedure is fully understood.**

### **SURFACE PREPARATION**

All surfaces should be clean, dry and free from contaminants. Concrete surfaces should have all surface laitence removed by mechanical means e.g. light abrasive blasting or grinding, any resulting dust and debris should be swept away.

**Non Porous Surfaces:** Including tiled and power floated concrete should be primed with **Thortex Uni-Tech G.P. Primer** in accordance with the product tech sheet.

**Porous Surfaces:** Including concrete and mineral surfaces should be primed with **Thortex Floor-Tech S.P. Primer** in accordance with the product tech sheet. Rough and pitted concrete should be planed smooth and filled with **Thortex Grano-Tech** or **Thortex Floor-Tech R.S.** then primed with **Thortex Floor-Tech S.P. Primer** in accordance with the product tech sheet.

**Previously Coated Surfaces:** Any loose/flaking material must be removed. Surfaces should then be thoroughly cleaned and abraded then primed with **Thortex Uni-Tech G.P. Primer** in accordance with the product tech sheet.

**Metal surfaces:** Should be abrasive blast cleaned, any resulting dust and debris should then be swept clean. Prepared surfaces can then be directly coated with **Thortex Floor-Tech H.B.**

### **MIXING**

**Thortex Floor-Tech H.B.** is a two component material comprising base and activator components which must be mixed together prior to use.

Stir the base component, continue stirring whilst adding all the contents of the activator component and mix until homogeneous. To ensure thorough mixing it is advisable that the mixed product is transferred to another container and the original container is scraped out, and further mixing carried out to ensure a homogeneous mix is obtained.

The mixed product must be used within 45 minutes of mixing at 20°C (68°F).

### **APPLICATION**

**Thortex Floor-Tech H.B.** should not be applied when the relative humidity exceeds 90% or when the surface to be coated is less than 3°C above the dew point.

It is not advisable to apply **Thortex Floor-Tech H.B.** when the surface is less than 10°C (50°F).

**Thortex Floor-Tech H.B.** can be applied by good quality brushes or medium pile rollers. The coating should be applied evenly with regular checks being made to ensure the correct film thickness is applied.

When application involves areas of an intricate nature it is advisable to split the mixed material into small quantities and use two applicators to avoid the material becoming unusable before application is complete.

### **Slip Deterrent System**

To provide a slip deterrent system **Thortex Floor-Tech H.B.** should be mixed and applied as before to the primed surface. Whilst the coating is still wet the appropriate grade of **Thortex Grip** can be scattered into the surface at approximately 25 gm (1 oz.) per square metre, to produce a medium density grip. After overnight curing any loose aggregate can be removed and if required a further seal coat of **Thortex Floor-Tech H.B.** can be applied.

Alternatively, **Thortex Grip** can be stirred into the mixed **Thortex Floor-Tech H.B.** prior to application, and then applied by roller to provide a one coat slip deterrent finish.

**Note:** When tested to Clause 12.5 of BD29/87 in wet conditions a complete covering of **Thortex HD Grip** produces an anti-slip factor of 99.4

All equipment must be cleaned IMMEDIATELY after use with **Thortex Universal Cleaner**.

#### Theoretical Coverage Rate

5 m<sup>2</sup> / litre at 200 microns dft (53 ft<sup>2</sup> per litre at 8 mils dft)

#### Recommended Film Thickness

Wet 200 microns (8 mils)

Dry 200 microns (8 mils)

Detailed working recommendations are available from the Technical Centre on request.

## PHYSICAL CONSTANTS

**Mixing Ratio** 2 parts base to 1 part activator by volume

**Appearance**

Base	Thixotropic Coloured Liquid
Activator	Clear Straw Coloured Liquid

#### Drying & Cure

##### Times at

20°C/68°F

Usable Life	45 minutes
Touch Dry	6 hours
Hard Dry For Service	24 hours
Minimum Overcoating	16 hours
Maximum Overcoating	3 days
Full Cure	7 days

**Volume Solids** 100%

**V.O.C.** Nil

**Shelf Life** Use within 5 years of purchase. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).

**Food Contact** Meets USDA requirements for incidental food contact.

Meets FDA CFR 21.175.300 requirements for food contact.

FOR FURTHER INFORMATION PLEASE CONTACT

## PHYSICAL PROPERTIES

TX850/0302

<b>Abrasion Resistance</b>	20 mgm per 1000 cycles, CS17 wheel 1kg load
ASTM D4060	
<b>Impact Resistance</b>	3.95 joules (35 ins/lbs)
ASTM D2794	
<b>Adhesion</b>	35 kg/cm <sup>2</sup> (500 psi)
ASTM D4541	
<b>Scratch Resistance</b>	No Failure at 2.5 kg (5.5 lbs) load
BS3900-E2	
<b>Compressive Strength</b>	650 kg/cm <sup>2</sup> (9250 psi)
ASTM D695	
<b>Tensile Strength</b>	160 kg/cm <sup>2</sup> (2275 psi)
ASTM D638	

## HEALTH AND SAFETY

As long as normal good practice is observed **Thortex Floor-Tech H.B.** can be safely used.

Protective gloves should be worn in confined areas.

A fully detailed **Material Safety Data Sheet** is either included with the material or is available on request.

## PACKAGING

Supplied in 5 and 20 litre packs.

The information provided in this Product Data Sheet is intended as a general guide only and should not be used for specification purposes. The information is given in good faith but we assume no responsibility for the use made of the product or this information because this is outside the control of the company. Users should determine the suitability of the product for their own particular purposes by their own tests.



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