



# TECHNICAL DATASHEET

## FLOOR-TECH F.B.X.

### Two Component Solvent Free Polyurethane Coating



**Thortex Floor-Tech F.B.X.** is a high performance solvent free polyurethane system specifically developed for use as a high build flexible floor coating.

**Thortex Floor-Tech F.B.X.** is formulated on a complex blend of high molecular weight polyols and urethane polymers, which produces a system with outstanding impact and chemical resistance coupled with a high degree of flexibility. This unique resin system is combined with a special blend of pigments enabling a select range of colours to be offered suitable for the long term protection of industrial floors operating in the most aggressive of environments.

**Thortex Floor-Tech F.B.X.** has excellent adhesion to almost any mineral surface in combination with **Thortex Floor-Tech F.B. Primer** or **Thortex Floor-Tech S.F.U. Primer** and is ideal for long term protection of car parks and floors in factories, warehouses, kitchens, dairies, breweries or any area where long term maintenance free protection is required.

**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 loose material. Concrete surfaces should have all surface laitence removed by mechanical means.

**Porous Surfaces:** including concrete, timber and certain asphalts should now be primed with **Thortex Floor-Tech F.B Primer** or **Thortex Floor-Tech S.F.U. Primer**, in accordance with the product tech sheet.

**Non Porous Surfaces:** including quarry tiles, power floated concrete and certain hot rolled asphalts should be primed with **Thortex Uni-Tech G.P. Primer** in accordance with the product tech sheet.

**Existing Coatings:** should first be checked for adhesion to the substrate then be primed with **Thortex Uni-Tech G.P. Primer** in accordance with the product tech sheet.

If in doubt about the choice of primer consult the **Thortex Technical Department**.

#### MIXING

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

The base component should be stirred and whilst continuing stirring, the activator component should be added with mixing continuing until a homogeneous mix results. The use of a mechanical mixer is advisable to ensure thorough and complete mixing.

The mixed product must be used within 25 minutes of mixing at 20°C (68°F).

#### APPLICATION

Application should not be carried out when humidity exceeds 85%, or when the surface to be coated is less than 3°C above the dew point.

Application is best carried out when the surface to be coated is above 10°C (50°F).

**Thortex Floor-Tech F.B.X.** should be applied to give a smooth uniform coating by brush or roller with roller being the preferred method particularly for the application of slip resistant finishes.

Both short or medium pile rollers can be used for successful application, with medium pile being preferred on uneven surfaces.

Where a slip resistant finish is required then **Thortex L.D. or H.D. Grip** should be added to the **Thortex Floor-Tech F.B.X.** as follows:

Normal Dry Service Areas: **Thortex Grip** should be scattered on the freshly applied **Thortex Floor-Tech F.B.X.** at approximately 60-100 gm/m<sup>2</sup>, then rolled in to completely encapsulate the grip into the system.

For Ramps or Wet Conditions: Approximately 200-300 grams per m<sup>2</sup> of **Thortex H.D. Grip** should be scattered into the wet film and rolled in encapsulating the **Thortex H.D. Grip** into the wet film.

When used as part of the **Thortex Car Park Decking System** the freshly applied **Thortex Floor-Tech F.B.X.** should be blinded with 0.6mm dry silica sand (approximate consumption 3.5kg/m<sup>2</sup>)

#### Theoretical Coverage Rate

4 m<sup>2</sup> / litre at 250 microns dft (43 ft<sup>2</sup> per litre at 10 mils dft)

2 m<sup>2</sup> / litre at 500 microns dft (21.5ft<sup>2</sup> per litre at 20 mils dft)

#### Recommended Film Thickness

Wet/Dry 250 microns (10 mils) - normal flooring applications

Wet/Dry 500 microns (20 mils) - Car Park Decking applications

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

## PHYSICAL CONSTANTS

**Mixing Ratio** 3 parts base to 1 part activator by volume.

**Appearance** Base Viscous Coloured Liquid  
Activator Dark Brown Liquid

#### Drying & Cure Times

<b>at 20°C (68°F)</b>	Usable Life	25 minutes
	Touch Dry	5 hours
	Hard Dry	16 hours
	Minimum Overcoating	16 hours
	Maximum Overcoating	48 hours

**Volume Solids** 100%

**V.O.C.** Nil

**Shelf Life** Use within 2 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 requirements CFR 21.175.300 for food contact.

## PHYSICAL PROPERTIES

**Abrasion Resistance** 130 mgm weight loss per 1000 cycles -  
ASTMD4060 1 kg load - CS17 wheel

**Impact Resistance** 12.43 Joules (110 in lbs)  
ASTMD2794

**Elongation** 55%  
ASTMD412

**Direct Pull Adhesion** 63 kg/cm<sup>2</sup> (900 psi) - Steel  
ASTM D4541 35 kg/cm<sup>2</sup> (500 psi) - Concrete  
(Concrete Failure)  
35 kg/cm<sup>2</sup> (500 psi) - Asphalt  
(Asphalt Failure)

**Tensile Strength** 110 kg/cm<sup>2</sup> (1565 psi)  
ASTMD638

**Scrub Resistance** >10,000 cycles  
ASTMD2486

**Scratch Resistance** No failure 2.5 kg (5.5 lbs) load  
BS3900 Part E2

## HEALTH AND SAFETY

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

The use of protective gloves is advisable during use.

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

## PACKAGING

Supplied in 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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FOR FURTHER INFORMATION PLEASE CONTACT