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TECHNICAL DATA SHEET

FLOOR-TECH F.B.

Two Component Solvent Free Polyurethane Coating

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

Thortex Floor-Tech F.B. is formulated on a complex blend of high molecular weight polyols and urethane polymers, reinforced with ceramics and inert pigments which produces a system with outstanding abrasion, impact and chemical resistance coupled with a high degree of flexibility. This results a product suitable for the long term protection of industrial floors operating in the most aggressive of environments offered in a variety of colours.

Thortex Floor-Tech F.B. 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 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.

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** as follows:

Normal Dry Service Areas; **Thortex Grip** should be scattered on the freshly applied **Thortex Floor-Tech F.B.** at approximately 60-100 gm/m², then rolled in to completely encapsulate the grip into the system.

For Ramps or Wet Conditions; Approximately 200-300 grams per m² 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.

Note: When tested to Clause 12.5 of BD 29/87 in wet conditions a complete covering of **Thortex HD Grip** produces an anti-slip factor of 99.4.

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%.

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

Thortex Floor-Tech F.B. 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.

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

Theoretical Coverage Rate
4 m² / litre at 250 microns dft (43 ft² per litre at 10 mils dft)

Recommended Film Thickness
Wet 250 microns (10 mils)
Dry 250 microns (10 mils)

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 at 20°C	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.	

FOR FURTHER INFORMATION PLEASE CONTACT

PHYSICAL PROPERTIES

Abrasion Resistance ASTM D4060	80 mgm weight loss per 1000 cycles - 1 kg load - CS17 wheel
Impact Resistance ASTM D2794	12.43 Joules (110 in lbs)
Elongation ASTM D412	55%
Direct Pull Adhesion ASTM D4541	63 kg/cm² (900 psi) - Steel 35 kg/cm² (500 psi) - Concrete (Concrete Failure) 35 kg/cm² (500 psi) - Asphalt (Asphalt Failure)
Tensile Strength ASTM D638	110 kg/cm² (1565 psi)
Scrub Resistance ASTM D2486	>10,000 cycles
Scratch Resistance BS3900 Part E2	No failure 2.5 kg (5.5 lbs) load

HEALTH AND SAFETY

As long as normal good practice is observed **Thortex Floor-Tech F.B.** 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

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