



FLOOR-TECH P.S.L

Three Component Solvent Free Polyurethane Coating

Thortex Floor-Tech P.S.L is a high performance solvent free polyurethane self-levelling screed designed for the resurfacing of worn and eroded floors where a degree of flexibility is required.

Thortex Floor-Tech P.S.L. is formulated on a complex blend of high molecular weight polyols and urethane polymers which have been specially selected to provide the optimum level of adhesion, impact and chemical resistance. The aggregate within the system is comprised of a blend of silica quartz minerals carefully chosen to provide ultimate application, levelling, flexibility and performance properties.

Thortex Floor-Tech P.S.L. is simple to mix and apply and offers excellent long term protection to industrial floors operating in even the most aggressive environments.

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, grinding or scarifying and all resultant dust or debris swept away.

Non Porous Surfaces: Including quarry tiles 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 first be filled with **Thortex Floor-Tech R.S.** if required.

The prepared surface should then be primed with **Thortex Floor-Tech S.F.U.** in accordance with the Product Tech Sheet.

NOTE: A very porous surface may require two coats of **Thortex Floor-Tech S.F.U.**

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.

NOTE: For wet service conditions all substrates must be abraded or abrasive blasted before being coated with the appropriate primer.

MIXING

Thortex Floor-Tech P.S.L is a three component product, all components must be mixed together before use. The Base and Activator components should be thoroughly mixed together in the outer container of the pack. After mixing continue stirring and add the total contents of the aggregate bag, care must be taken to ensure thorough 'wetting' of the aggregate to prevent the formation of agglomerates. The use of a mechanical mixer will be advantageous.

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

APPLICATION

Thortex Floor-Tech P.S.L. should not be applied when the relative humidity exceeds 85% 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 P.S.L.** when the surface is less than 10°C (50°F).

To apply the product, pour the mixed material onto the primed surface and spread with a serrated trowel to the required thickness (the serrations in the trowel should be 2-3 mm deep with a saw tooth pattern to give a 2 mm film thickness and 4-5 mm deep to give a 3 mm film thickness).

After spreading, the use of a spiked roller over the coated area is advised to aid the release of entrapped air.

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

Theoretical Coverage Rate

0.26 m²/kilo at 2 mm dft (3 ft²/kilo at 80 mils dft)

0.175 m²/kilo at 3 mm dft (2 ft²/kilo at 120 mils dft)

Recommended Film Thickness

Wet 2 mm (80 mils)

Dry 2 mm (80 mils)

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

PHYSICAL CONSTANTS

Mixing Ratio Mix as supplied.

Appearance	Base	Straw Coloured Liquid
	Activator	Clear Brown Liquid
	Aggregate	Coloured Aggregate

Drying & Cure

Times at 20°C/68°F	Usable Life	20 minutes
	Touch Dry	5 hours
	Hard Dry For Service	16 hours
	Minimum Overcoating	6 hours
	Maximum Overcoating	24 hours
	Full Cure	4 days

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 FDA CFR 21.175.300 requirements for food contact.
Meets USDA requirements for incidental food contact.

PHYSICAL PROPERTIES

Abrasion Resistance ASTMD4060	65 mgm weight loss per 1000 cycles - 1 kg load - CS17 wheel
Impact Resistance ASTMD2794	12.43 joules (110 ins lbs)
Elongation ASTMD412	15%
Direct Pull Adhesion ASTM D4541	35 kg/cm ² (500 psi) - Concrete (Concrete Failure) 35 kg/cm ² (500 psi) - Asphalt (Asphalt Failure)
Scrub Resistance ASTMD2486	>10,000 cycles
Tensile Strength ASTMD638	110 kg/cm ² (1565 psi)
Scratch Resistance BS 3900 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 P.S.L.** 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 and 40 kg 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