



# TECHNICAL DATA SHEET

## FLOOR-TECH I.S.

Three Component Solvent Free Epoxy Screed



**Thortex Floor-Tech I.S.** is a high performance decorative resurfacing screed designed for use on concrete and other floor surfaces subject to abrasion and chemical attack.

**Thortex Floor-Tech I.S.** is based on a unique blend of epoxy resins and polyamino adducts with a blend of reinforced silica quartz minerals which have been specifically selected to provide optimum application properties together with a high level of adhesion, abrasion, impact and chemical resistance.

**Thortex Floor-Tech I.S.** is a unique resurfacing system which provides excellent long term protection to industrial floors operating in even the most aggressive environments and is ideal for use in abattoirs, dairies, food factories and industrial factories where a decorative finish 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 oil, grease and loose material. Heavy oil deposits may require burning out.

Concrete surfaces should be abrasive blasted, scabbled or scarified and any existing coating removed. The prepared surface should then be vacuumed to remove dust etc.

Other surfaces should be abraded, steel surfaces should be grit blasted.

### PRIMING

After cleaning, the surface should be primed with **Thortex Floor-Tech S.P. Primer**. Care should be taken to avoid ponding and excessive thickness of the primer.

The primer should not be allowed to dry prior to the application of **Thortex Floor-Tech I.S.**. Any primed area that has been allowed to dry must be re-primed.

On very porous substrates two coats of primer may be required.

### MIXING

**Thortex Floor-Tech I.S.** is supplied in three components, a base component, activator component and aggregate supplied in a large plastic bucket. These three components should be removed from the outer bucket, then the resin components can be mixed together in this bucket.

The aggregate should then be added slowly to the mixed resins.

To ensure complete mixing, it is recommended that a mechanical mixer of the Mixal, Hobart or Danes type be used, with mixing continuing for 3-4 minutes after addition of the aggregate to ensure pockets of resin rich screed are avoided.

It is advisable to stop the mixer at intervals and scrape down the mixer blade into the mix and restart the mixer.

The mixed material should be used within 1 hour of commencing mixing at 20°C(68°F).

### APPLICATION

The mixed **Thortex Floor-Tech I.S.** can be poured onto the wet primed area and generally spread out with a trowel or steel float, with a float being used to smooth the product out.

To ensure the correct application thickness is achieved, wooden lats cut to the thickness required for the screed should be used, and the mixed material levelled to this thickness. Alternatively **Thortex Floor-Tech I.S.** can be spread by loading the mixed product into a 'Screeding Box', with the applicator blade set to the required thickness.

**Thortex Floor-Tech I.S.** can then be spread over the prepared floor area. The spread of **Thortex Floor-Tech I.S.** should then be smoothed and compacted using a plasterer's float.

The minimum recommended film thickness for **Thortex Floor-Tech I.S.** is 4 mm(160mils).

**Thortex Floor-Tech I.S.** should not be feathered out, edges must always be undercut.

At the end of a working day the edge of the **Thortex Floor-Tech I.S.** screed should be cut at right angles to the floor using the edge of the steel float. This edge then provides a working level for the next application of screed, with the primer being applied up the vertical edge.

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

#### Theoretical Coverage Rate

1.7m<sup>2</sup> / 25kg pack at 6mm thickness (19 ft<sup>2</sup> / 25kg pack at ¼")

#### Recommended Film Thickness

Wet 6 mm (240 mil)

Dry 6 mm (240 mil)

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

## PHYSICAL CONSTANTS

**Mixing Ratio** Mix as supplied.

**Appearance**

Base	Clear Liquid
Activator	Clear Straw Coloured Liquid
Aggregate	Coloured Aggregate

#### Drying & Cure

<b>times at 20°C(68°F)</b>	Usable Life	1 hour
	Hard Dry	8 hours
	Minimum Overcoating	8 hours
	Maximum Overcoating	24 hours
	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 Requirements of CFR 21.175.300 for food contact.

## PHYSICAL PROPERTIES

<b>Compressive Strength</b> ASTM D695	880 kg/cm <sup>2</sup> (12500 psi)
<b>Flexural Strength</b> ASTM D790	460 kg/cm <sup>2</sup> (6500 psi)
<b>Shrinkage</b> ASTM C426	Nil
<b>Abrasion Resistance</b> ASTM D4060	45 mgm weight loss per 1000 cycles - 1 kg load CS17 wheel
<b>Impact Resistance</b> ASTM D2794	1.6 Joules (14 in lbs)
<b>Scratch Resistance</b> BS 3900 Part E2	No failure 2.5 kg (5.5 lbs) load
<b>Dry Heat Resistance</b> ASTM D2485	135°C (275°F)

## HEALTH AND SAFETY

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

The wearing 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 25 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