REPAIR AND PROTECTION TECHNOLOGY

TECHNICAL DATA SHEET

FLOOR-TECH R.S.

Three Component Solvent Free Epoxy Screed

Thortex Floor-Tech R.S. is a high performance resurfacing screed designed for use for concrete floors subject to abrasion and chemical attack.

Thortex Floor-Tech R.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 R.S. is a unique resurfacing system which provides excellent long term protection to industrial floors operating in even the most aggressive environment and is ideal for use in abattoirs, dairies, food factories and industrial factories etc.

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 R.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 R.S. is supplied in three components, a base component, activator component and aggregate contained 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, Hobert or Danes type be used, with mixing continuing for 3-4 minutes after addition of the aggregate.

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

APPLICATION

Screeding

The mixed **Thortex Floor-Tech R.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 leveled to this thickness.

At the end of the working day the edge of the **Thortex Floor-Tech R.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. Feather edging is not recommended for joining up bays but can be used to form ramps at door openings etc.

Coving Formation

The mixed **Thortex Floor-Tech R.S.** should be applied into the primed wall/floor interface by trowel, while the primer is still tacky.

The **Thortex Floor-Tech R.S.** should be compacted into the corner and angled off with the point of the trowel. The material can then be curved using a coving trowel or a plastic pipe of double the diameter of size of coving required.

For estimating coving quantities the following are approximate lengths which 1 unit of **Thortex Floor-Tech R.S.** will provide:-

1 inch / 25 mm	78.3 linear meters
1½ inch / 38 mm	34.8 linear meters
2 inch / 50 mm	19.6 linear meters
3 inch / 75 mm	8.7 linear meters
4 inch / 100 mm	4.9 linear meters
6 inch / 150 mm	2.2 linear meters

NOTE: The minimum temperature for application is 10°C (50°F).

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

Theoretical Coverage Rate
1.7 m^2/25kg pack at 6mm thickness (19 ft^2 / 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 Center on request.

PHYSICAL CONSTANTS

Mixing Ratio Mix as supplied

Appearance	Base	Clear Liquid
	Activator	Clear Straw Colored Liquid
	Aggregate	Colored Aggregate

Drying & Cure Times

At 20°C (68°F)	Usable Life	1hour
	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 U.S.D.A. requirements for incidental food contact.
Meets FDA Requirements CFR 21.175.300 for food contact
Canadian Food Inspection Agency – Accepted Product

FOR FURTHER INFORMATION PLEASE CONTACT

PHYSICAL PROPERTIES

Compressive Strength ASTM D695	880 kg/cm^2 (12500 psi)
Flexural Strength ASTM D790	460 kg/cm^2 (6500 psi)
Shrinkage ASTM C426	Nil
Abrasion Resistance ASTM D4060	45 mgm weight loss per 1000 cycles – 1kg load CS17 wheel
Impact Resistance ASTM D2794	14 in lbs
Scratch Resistance BS 3900 Part E2	No failure 2.5 kg load
Dry Heat Resistance ASTM D248	135°C (275°F)

HEALTH AND SAFETY

As long as normal good practice is observed **Thortex Floor-Tech R.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 25kg packs

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