



TECHNICAL DATA SHEET



FLOOR-TECH P.R.

Three Component Solvent Free Epoxy Mortar

Thortex Floor-Tech P.R. is a high performance self-priming epoxy repair mortar specifically designed for repairing damaged and eroded concrete surfaces.

Thortex Floor-Tech P.R. is based on a unique blend of epoxy resins with polyamino amine adduct with a blend of reinforced silica quartz minerals which have been specifically selected to provide the optimum level of adhesion, abrasion, impact and chemical resistance.

Thortex Floor-Tech P.R. is fast curing allowing repairs to be carried out on any concrete surface with the minimum disruption to services.

Before proceeding, please read the following information carefully to ensure that the correct application procedure is fully understood.

SURFACE PREPARATION

All dirt and loose friable material should be removed, and the surface cut back to a sound edge. Any exposed re-bars must be fully exposed and treated with a **Thortex Anti-Corrosive System**.

PRIMING

Whilst **Thortex Floor-Tech P.R.** can be used without a primer, on certain very porous surfaces a coat of the mixed **Thortex Floor-Tech P.R.** resins should be applied to prime / seal the surface.

Two parts of base resin should be mixed with one part of activator by volume and the mixed system brushed into the prepared surface.

MIXING

Thortex Floor-Tech P.R. is a three component material which must be mixed together prior to use.

When mixing the complete unit the aggregate component should be removed from the outer container, which is then used as the mixing container. The base and activator containers should be emptied into the mixing container and mixed until homogeneous. The aggregate should now be added and thoroughly mixed into the base resins to ensure complete wetting out.

APPLICATION

The mixed **Thortex Floor-Tech P.R.** should be applied by float or trowel to the prepared surface with the material being pressed firmly onto the surface then finished by float to give a smooth surface.

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

Volume Capacity

450 cc (27.5 cu. in) per kilo

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

PHYSICAL CONSTANTS

Mixing Ratio

Mix as supplied.

When mixing less than the complete unit, two volumes of base and one volume of activator should be mixed together and then aggregate added to mix to give the desired consistency.

Appearance	Base	Clear Liquid
	Activator	Clear Amber Liquid
	Aggregate	Coloured Aggregate

Drying & Cure times at 20°C	Usable Life	12 minutes (resins) 25 minutes (with aggregate)
	Full Cure	3½ hours

Volume Solids 100%

V.O.C. Nil

Shelf Life Use within 5 years of purchase.
Stored 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	145 mgm weight loss per 1000 cycles
ASTM D4060	- 1 kg coad - CS17 wheel
Impact Resistance	1.8 Joules (16 in lbs)
ASTM D2794	
Dry Heat Resistance	135°C (275°F)
ASTM D2485	
Direct Pull Adhesion	35 kg/cm ² (500 psi) - concrete
ASTM D4541	(concrete failure)
Scrub Resistance	>10,000 cycles
ASTM D2486	
Compressive Strength	840 kg/cm ² (12000 psi)
ASTM D695	
Flexural Strength	450 kg/cm ² (6500 psi)
ASTM D790	
Shrinkage	Nil
ASTM C246	

FOR FURTHER INFORMATION PLEASE CONTACT

HEALTH AND SAFETY

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

Protective gloves should be worn.

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

PACKAGING

Supplied in 5 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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