



TECHNICAL DATA SHEET

GRIP-TECH



Two Component Solvent Free Epoxy Safety System

Thortex Grip-Tech is a high performance solvent free epoxy coating combined with an abrasion resistant aggregate designed for use as a universal slip deterrent system for mineral and metallic surfaces.

Thortex Grip-Tech is based on a blend of epoxy resins and polyamines reinforced with a range of inorganic pigments and fillers which produce a system with a high level of mechanical strength and adhesion. This unique resin system when in combination with an available choice of aggregates offers a slip deterrent surfacing system that can be applied to a wide variety of surfaces even in cold damp conditions.

Thortex Grip-Tech is safe, simple and easy to use and can be applied in one easy application and is ideal for use on steps, ramps, walkways, tank tops, tailgates, machinery areas etc.

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

SURFACE PREPARATION

All heavy dirt deposits and other contamination should be removed before carrying out the following methods of surface preparation.

Metal Surfaces: Surfaces must be either blast cleaned or mechanically abraded to remove all rust, scale, paint and other contaminants. When using mechanical cleaning a coarse profile should be obtained, polishing of the surface must be avoided. The prepared surface should then be degreased using **Thortex Universal Cleaner**.

Concrete Surfaces: All dust, paint, oil or grease must be removed and the surface should be firm and dry. Any laitence must be removed by mechanical cleaning. Dense concrete and power floated concrete should be lightly abrasive blasted or mechanically abraded to provide a physical key, resultant dust and debris must be removed.

Wooden Surfaces: Surfaces must be dry and free from oil, grease and paint, then abraded to provide a key. All resultant dust and debris must be removed.

Quarry Tiles: Surfaces should be abrasive blasted or ground using an angle grinder to create a suitable profile, all abrasive dust and residue should then be removed. The prepared surface should then be thoroughly degreased using **Thortex Universal Cleaner**.

Where a specific pattern is required, masking tape should be laid firmly on the prepared surface to provide the pattern. The masking tape should be firmly bonded to the surface to prevent seepage under the tape.

MIXING

Thortex Grip-Tech is supplied as a three component material comprising a base component, an activator component and graded aggregate component.

The base component should be stirred, and while continually stirring add the contents of activator and continue mixing until a completely streak free material is produced. Thorough mixing is extremely important and once the material appears mixed, further mixing should be undertaken to ensure there is no unmixed material, particularly on sides of containers.

When less than full units are required the base and activator should be measured out by weight, in the ratio of 4 parts base to 1 part activator, into a clean container and thoroughly mixed as before.

The mixed material must be applied within 25 minutes of mixing at 68°F.

APPLICATION

Application should not be carried out of temperatures below 40°F nor when relative humidity exceeds 85% or when the surface to be coated is less than 5°F above the dew point.

Thortex Grip-Tech should be applied evenly over the prepared surface using a stiff bristled brush or squeegee at the optimum film thickness of 10 mils. The mixed material should be worked into the surface to ensure complete wetting of the surface.

While the applied material is still wet, **Thortex H.D.** or **W.D. Grip** should be scattered over the surface to completely cover the surface. Approximately 1.450 kg of aggregate should be applied per square meter to provide complete coverage (approximately 2.7 kg per unit).

As soon as the aggregate has been applied all masking tape should be removed. If the **Thortex Grip-Tech** system is allowed to cure before the masking tape is removed, removal will be extremely difficult.

Once the system has cured excess aggregate can be brushed clear of the surface.

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

Theoretical Coverage Rate

24 ft²/kilo at 10 mils dft

Recommended Film Thickness

Wet 10 mils

Dry 10 mils

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

PHYSICAL CONSTANTS

Mixing Ratio	Base	Activator	
	2	1	By Volume
	4	1	By Weight

Appearance	Base	Colored Thixotropic Liquid
	Activator	Clear Amber Liquid
	Aggregate	Colored Granules

Drying & Cure Times at 68°F

Usable Life	25 minutes
Touch Dry	4 hours
Hard Dry to Traffic	16 hours
Minimum Overcoating	4 hours
Maximum Overcoating	48 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 40°F and 86°F.

FOR FURTHER INFORMATION PLEASE CONTACT

Food Contact Meets U.S.D.A. requirements for incidental food contact.

Meets FDA CFR 21.175.300 requirements for food contact.

PHYSICAL PROPERTIES

Adhesion (on concrete) 500psi cohesive failure of concrete
ASTM D4541

Adhesion (on quarry tile) 1200 psi cohesive failure of quarry tile
ASTM D4541

Compressive Strength 10,700 psi
ASTM D695

Tensile Shear Adhesion 2800 psi
(on grit blasted steel)
ASTM D1002

HEALTH AND SAFETY

As long as normal good practice is observed **Thortex Grip-Tech** 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 0.800 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.



Thortex America, Inc.

12 Iron Bridge Drive • Collegeville, PA 19426

Tel: 610 831 0222 • Fax: 610 831 1910

E-mail: info@thortex.com

www.thortex.com