



## Data Sheet and Application Guide

### Product Description

Thortex Chemi-Tech UC has been specifically developed as a 100% solids lining for the internals of tanks, vessels and other equipment in contact with aggressive chemicals.

### Product Features

- Combines good application characteristics with excellent corrosion protection and chemical resistance.
- Is designed for application in two or more coats by brush or roller.
- Is primarily intended for use on steel but can also be used on concrete surfaces with the appropriate primer.
- Adhesion—Excellent to surfaces prepared as described below.
- Corrosion Resistance—Excellent resistance to abrasion and mechanical damage.
- Chemical Resistance—Suitable for continuous immersion in inorganic acids.

### General Application Steps

1. Remove oil, grease and loosely adhering deposits.
2. Abrasive blast clean steel surfaces to NACE No. 2/SSPC-SP10 Near White Metal, ISO 8501:1, Grade SA2½. Scarify or lightly blast concrete surfaces and seal with Thortex Floor Tech SP Primer.
3. Apply Thortex Chemi-Tech UC coating at the specified thickness.
4. Allow to cure.
5. Visually or electrically inspect the coating for defects.
6. Repair all defects.

### Surface Preparation

Steel Surfaces—Steel surfaces should be abrasive blasted in accordance with NACE No 2/SSPC-SP10 Near White Metal, ISO 8501-1 grade Sa2½ or equivalent. The blast profile is generally specified by the client, a typical profile is 75-100 microns (3-4 mils). Where blast cleaning cannot be carried out the surface should be mechanically abraded to remove all loose scale and produce a surface with a coarse profile which is clean, dry and free from rust or dust.

Concrete Surfaces—Surfaces should be lightly abrasive blasted or mechanically scarified, taking care not to expose the aggregate. All dust and loose residue should then be removed and surfaces then sealed using Thortex Floor Tech SP Primer.

### Product Mixing

Thortex Chemi-Tech UC is a two component material comprising Base and Activator components which must be mixed together prior to use. Stir the contents of the Base component, continue stirring and gradually add the total contents of the Activator container, stir the combined mix until completely homogenous. The mixed materials should be used within 30 minutes of mixing at 20°C (68°F). This time will be reduced at higher temperatures and extended at lower temperatures.

### Application Procedures

Do not apply when the relative humidity exceeds 85% or when the surface to be coated is less than 3°C (5°F) above the dew point. Minimum temperature for application is 5°C (41°F).

Best application results are obtained at a minimum substrate and product temperature of 20°C (68°F). For optimum chemical resistance the product must be applied and allowed to cure at a minimum temperature of 20°C (68°F) for at least 7 days before chemical contact.

Thortex Chemi-Tech UC is primarily designed for application by brush, roller, or plural component sprayer. Good quality brushes or short to medium pile rollers should be used for these methods of application. The product should be applied to give a uniform even coating thickness and optimum results are achieved when both material and substrate temperatures above 15°C (59°F).

### Properties

Property	Value
Color	Light and Dark Grey
Ratio	2:1 By volume
<b>Drying &amp; Cure times at 20°C (68°F)</b>	
Useable Life	30 mins
Touch Dry	4 1/2 hours
Minimum Overcoating	4 1/2 hours
Maximum Overcoating	24 hours
Full Cure	7 days
Volume Solids	100%
Specific Gravity (Average Mixed)	1.15
Film Thickness (Typical)	Wet/Dry 250 microns (10 mils) per coat.

**Note:** Normally applied as a two coat system to achieve a nominal dry film thickness of 500 microns (20 mils). Normally applied as a two coat system by brush to achieve a minimum dry film thickness of 500 microns (20 mils). Can be applied in single coat by hot airless spray at 500 microns (20 mils). Detailed application instructions in the form of system recommendations are available on request.

Theoretical Coverage Rate

4 sq meters per liter at 250 microns dft (43 sq ft at 10 mils).

## Packaging and Storage

Supplied in 1 and 2 kilo units.

Use within 5 years from date of manufacture. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).

## Handling and Safety Precautions

Read all Health Hazard, Precautionary and First Aid, Material Safety Data Sheet, and/or product label prior to handling or use.

## Ordering Information/Customer Service

For ordering technical or product information, or a copy of the Material Safety Data Sheet, please contact us:

Phone: 610-831-0222

Fax: 610-831-1910

Email: [info@thortex.com](mailto:info@thortex.com)

## Important Notice

All statements, technical information, and recommendations related to Thortex's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in Thortex's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of Thortex.

## Warranty; Limited Remedy; Limited Liability.

Because conditions of product use are outside of our control and vary widely, the following is made in lieu of all express or implied warranties: this product will conform to Thortex's published product specifications and be free from defects in material and manufacture on the date of your purchase. **THORTEX MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective upon your receipt, your exclusive remedy shall be, at Thortex's option, to replace the Thortex product or refund the purchase price of the Thortex product. **Except where prohibited by law, Thortex will not be liable for any indirect, special, incidental or consequential loss or damage arising from this Thortex product, regardless of the legal theory asserted.**



Thortex America, Inc.  
12 Iron Bridge Drive • Collegeville, PA 19426  
Telephone: 610-831-0222  
Website: [www.thortex.com](http://www.thortex.com)