



# TECHNICAL DATASHEET

## CHEMI-TECH 152 L.V.

### Two Component Solvent Free Epoxy Coating



**Thortex Chemi-Tech 152 L.V.** is a high performance solvent free high build system designed for use as a corrosion resistant coating for steel and concrete structures with a minimum of surface preparation.

**Thortex Chemi-Tech 152 L.V.** utilises a special blend of epoxy resins and a polyamino-amide curing system reinforced with inert pigments and inorganic fillers to produce a coating with good physical properties and corrosion resistance.

**Thortex Chemi-Tech 152 L.V.** offers exceptional application and film build properties enabling high film thicknesses in a single coat to produce a system with a high degree of corrosion resistance and is ideal for ballast tanks, bridges, offshore maintenance etc.

**Thortex Chemi-Tech 152 L.V.** can be applied to damp steel surfaces and offers a high tolerance to manually prepared substrates.

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

#### SURFACE PREPARATION

Surfaces should be clean and free from oils, bacteria or algal growth.

**Steel Surfaces:** optimum performance will be obtained on surfaces prepared to minimum Sa 2½ in accordance with BS 7079: Part A11989 or equivalent. Where blast cleaning is not possible, surfaces should be prepared by mechanical wire brushing, grinding or high pressure water jetting (typically 5000 psi) to achieve Swedish Standard St2-St3 taking particular care when cleaning badly pitted surfaces.

Previously coated surfaces should be abraded using 180 grade emery paper. Any loosely adherent coating must be removed and surrounding area feather edged.

#### MIXING

**Thortex Chemi-Tech 152 L.V.** is a two component material comprising a base component and activator component which must be mixed together prior to use.

Both components should be thoroughly stirred to incorporate any slight separation prior to mixing. Whilst continually stirring the base, the activator component should be slowly added with mixing continuing until completely homogeneous.

After mixing fully, the material should be transferred to another container with the original container scraped clean into this new container and further mixing then carried out to ensure complete incorporation.

The mixed material must be used within 50 minutes at 20°C (68°F). This time will be reduced at higher temperatures and extended at lower temperatures.

#### APPLICATION

Application should not be carried out at temperatures below 5°C (41°F).

**Thortex Chemi-Tech 152 L.V.** should be applied by brush.

Prior to full application, a small test area should be carried out to establish a technique to ensure that the correct thickness is achieved. Even brush strokes should be used to give a uniform coating thickness.

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

**Theoretical Coverage Rate**

2 m<sup>2</sup>/litre at 500 microns dft (21.5 ft<sup>2</sup>/litre at 20 mil dft).

**Recommended Film Thickness**

Wet 400-500 microns (16-20 mils)

Dry 400-500 microns (16-20 mils)

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

**PHYSICAL PROPERTIES**

**Mixing Ratio** 3 parts base to 1 part activator by volume.

**Appearance** Base Thixotropic Coloured Liquid  
Activator Opaque Liquid

**Drying & Cure Times**

at 20°C (68°F)	Usable Life	50 minutes
	Touch Dry	12 hours
	Hard Dry	16 hours
	Minimum Overcoating	16 hours
	Maximum Overcoating	2 days
	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).

**Foodcontact** Meets USDA requirements for incidental food contact.  
Canadian Food Inspection Agency - Accepted Product.

**PHYSICAL PROPERTIES**

<b>Abrasion Resistance</b>	40 mgm weight loss per 1000 cycles - 1 kg load - CS17 wheel
ASTM D4060	
<b>Impact Resistance</b>	2.6 Joules (23 in lbs)
ASTMG14	
<b>Dry Heat Resistance</b>	100 (212°F)
ASTMD2485	
<b>Direct Pull Adhesion</b>	205 kg/cm <sup>2</sup> (2916 psi) steel
ASTMD4541	
<b>Water Vapour Permeability</b>	3.75 x 10 <sup>-6</sup> perm.cm
ASTMD1653	
<b>Salt Fog Resistance</b>	Excellent, unaffected after 10,000 hours exposure
ASTM B117	
<b>Scrub Resistance</b>	>10,000 cycles
ASTMD2486	
<b>Humidity Resistance</b>	Unaffected 5,000 hours exposure
BS3900 Part F2	

**HEALTH AND SAFETY**

As long as normal good practice is observed **Thortex Chemi-Tech 152 L.V.** can be safely used.

Protective gloves should be worn during use.

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

**PACKAGING**

Supplied in 5 litre 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