

## UNI-TECH M.C. PRIMER

### Two Component Solvent Based Epoxy Anticorrosive Primer

**Thortex Uni-Tech M.C. Primer** is a high performance anti-corrosive epoxy coating designed for use as a versatile universal primer on a wide range of surfaces including concrete and metal.

**Thortex Uni-Tech M.C. Primer** uses a well established blend of high molecular weight epoxy resin and a range of fine inorganic pigments and fillers combined with a specially formulated polyamine adduct which react together to product an effective anti-corrosive system with excellent adhesion to a wide range of surfaces whilst providing an extended overcoating window for most Thortex Finish Systems.

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

#### SURFACE PREPARATION

**Concrete Surfaces:** Surfaces should be dry, with a maximum moisture content of 7%. All surface laitence must be removed by light abrasive blasting or scarifying and all loose dust must be removed. Any oil and grease must be removed by steam cleaning or detergent pressure washing.

**GRP and Phenolic Surfaces:** Surfaces should be thoroughly degreased with **Thortex Universal Cleaner** then abraded with emery paper. All dust should be removed and the surface given a further wipe with **Thortex Universal Cleaner**.

**Galvanised Steel:** All oil and grease must be removed by thoroughly decreasing with **Thortex Universal Cleaner**. Any zinc corrosion salts must be removed by abrasion or thorough wire brushing.

**Aluminium Surfaces:** All oil and grease must be removed by thoroughly degreasing and the metal surface should then be abraded or lightly abrasive blasted.

#### MIXING

**Thortex Uni-Tech M.C. Primer** is a two component material which must be mixed together prior to use.

The base component should be thoroughly stirred to incorporate any slight separation then the total contents of the activator container should be added and stirring continued until a homogeneous mix is achieved.

The mixed material must be used within 8 hours of mixing at temperatures of 68°F.

#### APPLICATION

Application should not be carried out when the temperature is below 45°F nor when the relative humidity exceeds 90% or the surface to be coated is less than 5°F above the dew point.

**Thortex Uni-Tech M.C. Primer** can be applied by brush, roller or spray.

**Thortex Uni-Tech M.C. Primer** is supplied for application by brush or roller, but will require thinning for application by spray.

Good quality brushes and mohair rollers are recommended for these methods of application and the **Thortex Uni-Tech M.C. Primer** should be applied to give a uniform coating thickness.

**Airless Spray Application:** Equipment with a 32:1 pump ratio should be used with an input pressure of 60 psi, spray tips with a 13-15 thou orifice should be used.

**Conventional Spray:** Most types of equipment are suitable.

A typical setup is:

Pressure pot  
Needle set 1.4 - 1.8 mm

**Note:** When airless spray is being used excessively high tip spraying pressures should be avoided, the minimum pressure at the pump conducive to good atomisation should be used.

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

**Theoretical Coverage Rate**94 ft<sup>2</sup> / liter at 2 mils dft**Recommended Film Thickness**

Wet 4½ mils

Dry 2 mils

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

**PHYSICAL CONSTANTS**

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

**Appearance** Base Thixotropic Liquid  
Activator Clear Liquid

**Drying & Cure times at 68°F**

Usable Life	8 hours
Touch Dry	4 hours
Hard Dry	16 hours
Minimum Overcoating	16 hours
Maximum Overcoating	3 months
Full Cure	7 days

**Note:** When used as a primer on non porous roofs, overcoating can be carried out after a minimum of 4 hours in good ambient conditions.

**Volume Solids** 45%

**V.O.C.** 526 gm/liter

**Food Contact** Meets USDA requirements for incidental food contact.  
Meets FDA requirements CFR 21.175.300 for food contact.

**Shelf Life** Use within 2 years of purchase. Store in original sealed containers at temperatures between 40°F and 86°F.

**Fire Performance (Applied at recommended dft)**

Class 1 Surface Spread of Flame-BS476 Part 7  
Class 0 Designation in accordance with UK Building Regulations 1985 - BS476 Part 6 Approvals Document B2/3/4 Appendix A.

FOR FURTHER INFORMATION PLEASE CONTACT

**PHYSICAL PROPERTIES**

<b>Direct Pull Adhesion</b> (Abrasive Blasted Steel) ASTM D4541	550psi
<b>Dry Heat Resistance</b> ASTM D2485	212°F
<b>Impact Resistance</b> BS 3900 Part E3	Direct-5mm (0.2 inch) Reverse-2.5mm (0.1 inch)
<b>Scratch Resistance</b> BS 3900 Part E2	No Failure 5.5 lbs load
<b>Tensile Shear Adhesion</b> ASTM D1002	2000psi

**HEALTH AND SAFETY**

As long as normal good practice is observed **Thortex Uni-Tech M.C. Primer** can be safely used.

Protective Gloves should be worn to prevent skin contact.

Vapor masks should be worn for spray application.

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

**PACKAGING**

Supplied in 5 and 20 liter 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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