



# TECHNICAL DATA SHEET

## WALL-TECH U.V.

### Two Component Water-Based Polyurethane Coating

**Thortex Wall-Tech U.V.** is a high performance water based coating designed for use on external and internal wall surfaces.

**Thortex Wall-Tech U.V.** is based on a complex blend of water-borne acrylic and urethane polymers in combination with colour stable chemical resistant pigments to provide a coating which offers outstanding weather, chemical and abrasion resistance together with excellent gloss, graffiti resistance and colour stability.

**Thortex Wall-Tech U.V.** can be applied to any type of wall surface when applied in conjunction with **Thortex Primers**.

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

#### SURFACE PREPARATION

Steel surfaces should be primed with the appropriate **Thortex Primer**.

Aluminium and galvanised steel surfaces should be primed with **Thortex Uni-Tech M.C. Primer**.

Concrete, brick and other masonry surfaces should be primed with **Thortex Uni-Tech M.C. Primer** or **Thortex Uni-Tech G.P. Primer**. Glazed, tiled and previously painted surfaces should be primed with **Thortex Uni-Tech G.P. Primer**.

All primed surfaces must be clean, dry and free from oil, grease and other contamination.

All primers should be applied in accordance with their product tech sheet.

#### MIXING

**Thortex Wall-Tech U.V.** is a two component water based product, both components must be mixed together prior to use. The base component should be stirred using a variable speed mechanical mixer with the mixer set at approximately 1000 rpm.

The activator component should be slowly added whilst continuing stirring (increasing the rpm as required) until a uniform homogeneous mix is obtained.

The mixed material must be used within 1½ hours of mixing at 20°C (68°F)

#### APPLICATION

Application *should not be carried out* when relative humidity exceeds 85% or when surface to be coated is less than 3°C above the dew point. The minimum temperature for application is 5°C.

**Thortex Wall-Tech U.V.** can be applied by brush, roller or spray.

**Brush** - Good quality brushes should be used with even brush strokes, ensuring that the **Thortex Wall-Tech U.V.** is not over-brushed leading to less than the specified coating thickness.

**Roller** - Short pile mohair rollers are the preferred equipment for this application method. **Thortex Wall-Tech U.V.** should be spread evenly with regular checks made to ensure the correct uniform wet film thickness is achieved.

**Spray** - **Thortex Wall-Tech U.V.** can be applied by conventional spray equipment, for detailed recommendation please contact the THORTEX TECHNICAL CENTRE.

**Thinning** - **Thortex Wall-Tech U.V.** does not normally require thinning for brush or roller application, however in hot windy conditions the addition of up to 5% clean water can be added to aid application. The product may require thinning for spray application using up to 5% by volume of clean water.

All equipment must be cleaned IMMEDIATELY after use with clean water.

**Theoretical Coverage Rate**

10 m<sup>2</sup>/litre at 50 microns dft. (107 ft<sup>2</sup>/litre at 2 mils dft).

**Recommended Film Thickness**

Wet 100 microns (4 mils)

Dry 50 microns (2 mils)

**Note:** Normally applied as a two coat system to achieve a total dry film thickness of 100 microns.

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

**PHYSICAL CONSTANTS**

**Mixing Ratio** 3.5 parts base to 1 part activator by volume

**Appearance** Base Coloured Liquid  
Activator Clear Liquid

**Drying & Cure**

<b>Times at</b>	Usable Life	1½ Hour
<b>20°C(68°F)</b>	Touch Dry	4 Hours
	Hard Dry	16 Hours
	Minimum Overcoating	4 Hours
	Maximum Overcoating	48 Hours
	Full Cure	7 Days

**Volume Solids** 50%

**V.O.C.:** 65gms/litre

**Fire Performance**

(Applied at recommended dft)

BS 476 Part 7 Class 1 surface spread of flame  
BS 476 Part 6 Class 0 in accordance with UK Building Regulations 1991 Approvals Document B2/3/4 Appendix A.

**Food Contact** Meets U.S.D.A. requirements for incidental food contact.  
Meets FDA CFR 21.175.300 requirements for food contact.

**Shelf Life** Use within 2 years of purchase. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F). PROTECT FROM FROST.

**PHYSICAL PROPERTIES**

<b>Impact Resistance</b>	No failure (0.9 kg load dropped 45 cm)
BS 2782 Part 3	
<b>Direct Pull Adhesion</b>	63 kg/cm <sup>2</sup> - steel 35 kg/cm <sup>2</sup> - concrete (concrete failure)
ASTM 4541	
<b>UV Resistance</b>	500 hours QUV-B no loss, no colour change
ASTM G53	
<b>Humidity Resistance</b>	Unaffected 5,000 hours exposure
BS 3900 Part F2	
<b>Bacteria Resistance</b>	Excellent
<b>Mould Resistance</b>	Excellent
<b>Scratch Resistance</b>	No failure 2.5 kg load
BS 3900 Part E2	

**HEALTH AND SAFETY**

As long as normal good practice is observed **Thortex Wall-Tech U.V.** can be safely used.

Vapour masks should be worn when using spray application especially in confined areas.

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

**PACKAGING**

Supplied in 4.5 litre packs - colours  
4.0 litre packs - clear

FOR FURTHER INFORMATION PLEASE CONTACT

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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