



UNI-TECH G.P. PRIMER

Two Component Water-Based Epoxy Primer



Thortex Uni-Tech G.P. Primer is a high performance multi purpose water-based primer specifically developed to act as a tie coat over existing coated surfaces and non porous substrates including tiles, brickwork, plaster and powerfloated concrete.

Thortex Uni-Tech G.P. Primer is formulated using specially developed water dispersible organic polymers and water soluble amine resins blended with a special mix of pigments and fillers to provide an environmentally friendly primer with outstanding adhesion to a wide range of surfaces which can be overcoated with a wide variety of Thortex systems.

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

SURFACE PREPARATION

WALLS

Existing Coatings: Ensure the surface is free from contamination. Oil and grease must be removed using an approved solvent or detergent solution. All loose or flaking paint should be removed back to a sound substrate.

Glazed Tiles and Brickwork: Surfaces must be free from contamination and loose material, oil and grease should be removed by detergent washing. When treating shower stalls the shower basin and the first three feet up the wall should be thoroughly degreased, abraded and again degreased to ensure removal of body fats and engrained dirt.

Blockwork: Surfaces should be free from dirt and contamination, all dust and loose material must be removed. Ideally surfaces should now be treated with an appropriate smoothing/filler coat.

Plaster and Cement Rendering: Surfaces should be clean, dry and free from loose material. Any laitence must be removed by mechanical abrasion.

FLOORS

Existing Coatings: The surface should first be degreased using an approved solvent or detergent solution, then mechanically abraded. All loose flaking material and abrasive dust must be removed.

Tiles: Surfaces must be free from dirt, oil, grease and other contamination. For wet service conditions, the surface of the tile must be mechanically abraded or light abrasive blasted.

Concrete: Surfaces must be clean, dry and free from oil and grease. All laitence must be removed by mechanical abrasion or light abrasive blasting. All dust and loose material must be removed.

NOTE: All floors operating in wet service conditions should be mechanically abraded or light abrasive blasted.

MIXING

Thortex Uni-Tech G.P. Primer is a two component material which must be mixed together prior to use.

Stir the contents of the base component to incorporate any slight separation, continue stirring and gradually add the total contents of the activator container. Continue stirring until a homogeneous mix is obtained.

The mixed material must be used within 2 hours of mixing at 68°F.

APPLICATION

Application should not be carried out at 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.

Brush: Brush application should be carried out using even brush strokes. **Thortex Uni-Tech GP Primer** should not be overbrushed, which may lead to lower than specified coating thickness.

Roller: **Thortex Uni-Tech GP Primer** should be spread evenly over the surface to give a film thickness of 3½ mil wet. Periodic thickness checks should be made to ensure that correct uniform thickness is achieved.

Airless Spray: Typical spray settings are as follows:

Tip Size	11-15 Thou
Tip Pressure	1750-2500 psi

Excessively high tip spraying pressures should be avoided. The minimum pressure at the pump conducive to good atomization should be used.

Thinning: **Thortex Uni-Tech G.P. Primer** may require thinning for spray application. Where thinning is necessary then up to 5% by volume of clean water may be added.

NOTE: When spraying **Thortex Uni-Tech G.P. Primer** equipment should be first flushed out with a water miscible solvent followed by clean water (this is important where solvent based products have previously been sprayed through the equipment).

All equipment must be cleaned IMMEDIATELY after use with water, stubborn deposits may be removed by the use of **Thortex Universal Cleaner**.

Theoretical Coverage Rate

121 ft²/liter at 1.5 mils dft

Recommended Film Thickness

Wet 3.5 mils

Dry 1.5 mils

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

PHYSICAL CONSTANTS

Mixing Ratio 3 parts base to 2 parts activator by volume.

Appearance

Base	Thixotropic Off White Liquid
Activator	Clear Amber Liquid

Drying & Cure

Times at	Usable Life	2 hours
68°F	Touch Dry	4 hours
	Minimum Overcoating	4 hours (walls) 8 hours (floors)
	Maximum Overcoating	72 hours
	Full Cure	7 days

FOR FURTHER INFORMATION PLEASE CONTACT

Volume Solids 45%

V.O.C. Nil

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

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

PHYSICAL PROPERTIES

Water Vapor 2.767 x 10⁻⁵ perm.cm

Permeability
ASTM D1653

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

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

PACKAGING

Supplied in 2.5 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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