

SikaTite® WPU

Water based modified polyurethane waterproofing membrane for under-tile, and protected applications.

Product Description SikaTite® WPU is a fast curing, UV stable, single component, class 3 waterproofing membrane.

Uses Under-tile, or protected waterproofing for use on most building substrates including; concrete, render, screeds, wet area wall sheets, fibre cement sheets, brick and MDF.

- Characteristics / Advantages**
- Excellent adhesion to most substrates
 - Fast curing
 - Permanently flexible
 - Approved for use with CTA tile adhesives, and levelling systems (polymer modified adhesive acceptable)
 - Anti-Microbial protection
 - Low VOC
 - Easy clean-up with water and detergent prior to curing

Approvals / Standards Complies with Green Building Council of Australia VOC limit requirements (<250g/L)

Product Data

Form

Appearance / Colour Thixotropic liquid / Standard grey & White

Packaging 1, 4 and 15L pails

Storage

Storage Conditions / Shelf Life Store in original, unopened and undamaged, in dry conditions at temperature between +10°C and 35°C.
A shelf life of 12 months from the date of production is achieved when stored in accordance with the above recommendations.

Technical Data

Chemical Base One component, water based modified polyurethane

Solid Content ~ 67% by weight (+23°C / 50% r.h.)



System Information

System Structure

Consumption

Build-up	Minimum of two coats at ≥ 0.8 litres / m ² applied, with second coat at 90° to the first coat
Wet Film Thickness	~ 0.8mm per coat
Dry Film Thickness	For 1.0mm DFT (minimum)

**) consumption figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.*

Application Details

Substrate Preparation

Concrete / Cementitious Substrate

For standard applications concrete should be cured for at least 28 days and be free of dust, dirt, curing compounds and other contaminants. Any cracks or voids larger than 1mm should be filled

Other substrates

Should be free of dust, dirt, and other contaminants.

Priming

Substrate	Primer	Overcoat time
Porous	SikaTite® Porous Primer	30 minutes
Non-porous	SikaTite® Non-Porous Primer	30 minutes
Moist, or 'Green' (to 93% RH)	SikaTite® Moisture Seal 1K, or SikaTite® Moisture Seal 2K*	15 minutes for second coat (0-90% R.H.) 45 minutes for third coat (90-93% R.H.) Overcoat with SikaTite® membrane after 1 hour

note: times are based upon ambient / substrate temperature and relative humidity of 18°C & 50%

Application Conditions / Limits

Substrate Temperature min. +10°C; max. +35°C

Ambient Temperature min. +10°C; max. +35°C

Ambient Humidity max. 85% r.h.

Dew Point

Beware of condensation!

The substrate and uncured membrane temperature must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the membrane finish.



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Application Instructions

Application Method

SikaTite(r) WPU can be easily applied by brush or roller. Care is to be taken to ensure that minimum material consumption is met per the Consumption table.

Floor Wall Joints

Joints must be treated either using SikaTite® ElastoJoint bandage system, or using SikaSil Pro, or other Sika neutral cure silicon. If SikaSil is used it must be left for minimum 24 hours at 18°C before it can be overcoated with SikaTite(r) WPU membrane.

Terminations

Where a terminating sealant is required, such as around windows, Sikaflex Clear should be used.

Application Tools

By brush: with a soft bristle brush

By roller: with a solvent resistant, “non-shedding” synthetic nylon roller

Cleaning of Tools

Clean all tools and application equipment with water and detergent immediately after use. Hardened and/or cured material can only be removed mechanically.

Curing Details

Overcoating Window

	Time*
Overcoat	4-6 hours
Tile	48 hours

*~23°C / 50% r.h.

** recommended for use with CTA tiling adhesives.

Note: times are approximate and will be affected by the layer thickness, the substrate temperature.

Notes on Application / Limitations

SikaTite® Non-Porous Primer should be used on metal substrates

SikaTite® Elastojoint bandages, corners, and tap flanges recommended for detailing

Not to be used on substrates with rising damp

Contact Sika Technical Support team for further advice as required

Value Base

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

