

## PRODUCT DATA SHEET

# Sikalastic® WPU

Elastomeric, single component, fibre reinforced, water based polyurethane membrane

### DESCRIPTION

Sikalastic® WPU is a premixed, single component, water based polyurethane waterproofing membrane. Sikalastic® WPU is a Class III membrane with high extensibility and forms an elastomeric, seamless waterproofing membrane for use in internal and external applications for under tiled finishes including shower recesses, bathrooms, laundries, decks, balconies, podiums and rooftops. Sikalastic® WPU has low VOC and adheres to a wide variety of substrates. Sikalastic® WPU contains micro fibre reinforcement for improved tensile strength and crack bridging capabilities.

### USES

- Concrete
- Sand/cement screeds
- Cement Render
- Fibrous cement sheeting
- Compressed fibrous cement sheeting
- Water resistant plasterboard

### CHARACTERISTICS / ADVANTAGES

- High Extensibility >300% (Class III)
- UV Stable
- Micro fibre enhanced reinforcement
- Internal and external applications
- Single component- no mixing, ready to use
- Water based- Low VOC, Non-hazardous
- Compatible with Sika®, Davco® and CTA® range of tile adhesives

### APPROVALS / CERTIFICATES

AS 4858-2004: Wet Area Membranes  
 BRANZ Appraisal- Interior applications  
 BRANZ Appraisal- Exterior applications

### PRODUCT INFORMATION

<b>Packaging</b>	15 Litre Pail
<b>Colour</b>	Grey
<b>Shelf life</b>	12 months from date of manufacture in original, sealed containers, if the storage conditions are met.
<b>Storage conditions</b>	Store in dry, weatherproof environment, protected from direct sunlight at temperatures between +5°C and +25°C
<b>Volatile organic compound (VOC) content</b>	43Grams/Litre- Low VOC (SCAQMD method 304-91)
<b>Tensile strength</b>	2.52 MPa
<b>Permeability to water vapour</b>	~ 3.29g/m2/24hr

## APPLICATION INFORMATION

<b>Consumption</b>	<b>WALLS:</b> 16.5m <sup>2</sup> per drum (0.6mm DFT) <b>FLOORS:</b> 10m <sup>2</sup> per drum (1mm DFT)
<b>Layer thickness</b>	<b>WALLS:</b> 2x coats of 450 Micron (Wet film) to achieve a DFT of 0.6mm <b>FLOORS:</b> 2x coats of 750 Micron (Wet film) to achieve a DFT of 1mm
<b>Drying time</b>	Allow a minimum of 10 hours curing prior to applying finished covering, and a minimum of 3 days to cure before flood testing. Flood testing is dependant on site specific conditions and may require longer cure times than 3 days, please ensure material is well cured before proceeding.
<b>Waiting time to overcoating</b>	Allow Sikalastic® WPU 2-3 hours to dry between coats. Allow longer in adverse weather conditions.

## BASIS OF PRODUCT DATA

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.

## FURTHER INFORMATION

Safety Data Sheet (SDS)

## IMPORTANT CONSIDERATIONS

### LIMITATIONS

- Sikalastic® WPU is not suitable for negative hydrostatic head of water pressure.
- Sikalastic® WPU must not be applied over damp or wet substrates.
- Sikalastic® WPU must not be applied in rain or if bad weather is imminent.
- Sikalastic® WPU must not be applied over coatings or contaminations.
- Sikalastic® WPU must be applied at the recommended coverage rate.
- Sikalastic® WPU must not be used in submerged applications.
- Sikalastic® WPU must not be used as a trafficable coating.
- Do not apply Sikalastic® WPU when the temperature is below 10°C or greater than 35°C.
- Do not allow Sikalastic® WPU to freeze.
- To eliminate contamination or damage, the finished covering must be applied as soon as Sikalastic® WPU has cured.
- Timber floors must be overlaid with suitable cement sheeting prior to waterproofing.
- Contact Sika® Technical Services for advice if further information is required

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

All surfaces to be waterproofed must be firm, clean, dry, structurally sound and smooth. All grease, oil, wax, curing compounds, dust, loose material, laitance and other contaminants must be removed. All projections and rough spots should be dressed off to achieve a level surface. The substrate surface must be continuous and provide falls to waste as per AS3740-2010 and AS4654.2-2012.

#### Priming

Porous dry surfaces must be primed using Sikafloor® -01 Primer (refer to PDS for consumption rates). Highly porous and dusty substrates must be primed with Sikalastic® Moisture Seal, damp green substrates must be primed with 2 coats of Sikalastic® Moisture Seal (refer to PDS for consumption rates). Dense and impervious substrates must be primed using ECO SYSTEMS® Prep 'N' Prime.

#### Concrete

Allow at least 28 days for the concrete to cure. Concrete should be left with an open surface. All traces of curing compounds or sealers should be removed prior to application. Old concrete must be thoroughly cleaned and washed and allowed to dry. The surface should be even unless falls are incorporated where required, imperfections to be repaired with a suitable Sika® MonoTop repair mortar. Prime the substrate with either Sikalastic® Moisture Seal or Sikafloor® -01 Primer. (refer to individual PDS for consumption rates)

#### Sand / Cement Screeds and Renders

The screeds and / or renders must conform to the appropriate standard and should be left with a wood float finish and left to cure for at least 7 days. Moisture content should be below 4% before membrane application. Prime the substrate with either Sikalastic® Moisture Seal or Sikafloor® -01 Primer. (refer to individual PDS for consumption rates)

#### Building Boards

Water resistant plasterboard and fibrous cement sheeting must be solidly fixed in accordance with the manufacturer's instructions specifically for tiling. The area must be primed with Sikafloor® -01 Primer or Sikalastic® Moisture Seal, particularly where jointing compound has been used.

## Non Porous Substrates

It may be necessary to mechanically prepare the area. Any existing tiles must be well bonded and be free from any sealers or coatings. Dense, low absorbent and impervious surfaces must be primed with ECO SYSTEMS® Prep 'N' Prime. Confirm adhesion and compatibility of the primer to the substrate before proceeding with membrane application.

### Static Crack & Sheet Joint Treatment

For static cracks 0.5 – 3mm wide rout out and clean thoroughly before filling with Sika® Neutral Cure silicone to form a Bond Breaker, for all sheet joints and seams clean thoroughly and fill with Sika® Neutral Cure silicone to form a Bond Breaker. For dynamic cracks, expansion joints and control joints contact Sika® technical service for advice.

### Bond Breaker

Sikalastic® WPU is a Class III membrane with high extensibility and is designed for use with a 12mm annulus bond breaker at floor/wall and wall/wall junctions. Sika® Neutral Cure silicone or Sikaflex® Fillet must be tooled off to a minimum 12mm wide as per table 3.2 in AS3740-2010. A bond breaker must be installed at areas subject to movement, wall/wall junction, wall/floor junction, sheet joints and seams, penetrations and where there is a change in the direction or substrate type.

### Tiling

Sikalastic® WPU is compatible with a range of Sika®, CTA® and Davco® polymer modified tile adhesives, Contact Sika Technical Service for further advice.

## APPLICATION METHOD / TOOLS

Sikalastic® WPU may be applied using a brush or roller. The surface must be continuous, Sikalastic® WPU cannot span gaps or voids. A minimum of two coats is recommended, each coat must be applied in a perpendicular direction to the previous coat. The application must conform to Australian Standards and relevant local building codes. Ensure there are no defects or damage to the waterproofing membrane, if necessary repair and rectify by applying a third coat.

## CLEANING OF EQUIPMENT

Clean tools and equipment with clean water while the material is still wet. Cured coating can only be removed mechanically.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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### Product Data Sheet

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## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika 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 accordance with Sika's recommendations. 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 user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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