BUILDING TRUST

PRODUCT DATA SHEET

SikaTile®-110 Secure Proof

A PREMIUM PERFORMANCE, CLASS III, FIBRE REINFORCED, READY TO USE, WATER-BASED POLYURETHANE WATERPROOFING MEMBRANE DESIGNED FOR UNDER TILE AND STONE APPLICATIONS.

DESCRIPTION

- A premium performance, flexible class III, ready to use, fibre reinforced, water based polyurethane waterproofing membrane designed for internal and external areas including wet areas, balconies, terraces, and non UV exposed above ground external applications.
- SikaTile®-110 Secure Proof is a suitable undertile waterproofing membrane that complies to AS/NZS 4654:2012 and AS 4858:2004.

USES

SikaTile®-110 Secure Proof is suitable for use on walls and floors for both internal and external applications. SikaTile®-110 Secure Proof is suitable for most typical construction substrates such as.

- Concrete
- GRC - Glass reinforced concrete
- Cement boards and sheets including Scyon
- Renders and screeds
- Cement coated light weight construction boards
- Plasterboard
- Structural Plywood
- Autoclaved Aerated Concrete (AAC)

CHARACTERISTICS / ADVANTAGES

- Premixed, ready to use
- High extensibility, Class III
- High elongation ≤500%
- Class III flexible performance
- Solvent free, water-based
- Fibre reinforced
- Excellent antifracture properties
- Excellent cure time
- Low VOC

APPROVALS / CERTIFICATES

BRANZ AS/NZS 4858:2004
Test Certificate DC13205-003

PRODUCT INFORMATION

Packaging	15 Litre Pail / 32 Pails per pallet
Shelf life	12 months from date of manufacture when stored unopened in elevated, cool, dry location.
Storage conditions	Store in dry cool conditions out of direct sunlight. Do not allow membrane to freeze.
Colour	Grey
Volatile organic compound (VOC) content	40g/L (SCAQMD method 304-91)

TECHNICAL INFORMATION

Shore A hardness	72
Tensile strength	2.1MPa
Permeability to water vapour	1.55g/m² / 24 hours

APPLICATION INFORMATION

Consumption

The minimum dry film thickness required is 1.0mm applied in a minimum of 2 coats.
The SikaTile®-110 Secure Proof shall be applied to the substrate at a rate of 0.75mm wet film thickness per coat.
A 15Ltr pail will cover approximately 10m2.

Ambient air temperature

5°C to 35°C

Applied product ready for use

	Drying Time
Ready for 2nd coat	1-2 hours after 1st coat
Ready for tiling	6-8 hours after final coat
Ready for flood testing	48 hours
Return to service	3+ days

All measurements are taken at 23ºC and 50% relative humidity. Specifications vary according to site conditions and should be taken as a guide only.

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.

IMPORTANT CONSIDERATIONS

- SikaTile®-110 Secure Proof is not suitable for applications in areas of permanent water immersion.
- SikaTile®-110 Secure Proof is not suitable for applications in area of negative hydrostatic pressure or rising damp.
- Delay applications if rain or inclement weather is imminent.
- SikaTile®-110 Secure Proof must be applied at the recommended coverage rates.
- SikaTile®-110 Secure Proof is not suitable for applications with UV exposure.
- Tongue & groove timber flooring must be over sheeted with fibre cement sheeting or ceramic tile underlay.
- Partical board flooring shall be adequately prepared with all contaminates removed.
- To minimise the chance of damage install finished covering as soon as possible once the membrane has cured.
- SikaTile®-110 Secure Proof must not be used as a wearing surface for foot and vehicular traffic.
- Contact Sika® for information or applications not mentioned in the document.

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

EQUIPMENT

- Brush, or short nap roller
- Protective personal equipment

SUBSTRATE QUALITY

- All surfaces must be installed according to manufacturer's instructions and relevant Australian Standard(s) and be structurally sound, dry, clean and free from movement, oil, grease, wax, curing compounds, release agents and any other loose or contaminating material.
- Prior to application, remove all sharp protrusions, which may pierce the membrane
- Any voids, potholes in the substrate must be appropriately filled up with a high strength mortar refer to Sika Monotop® mortars.

Concrete:

- All new concrete slabs must have a wood float finish and be allowed to cure for at least 6 weeks (refer to priming details for early aged concrete)
- Old concrete must be cleaned with a strong commercial grade detergent or degreaser. Residue must then be thoroughly washed off with clean water. Allow the surface to dry for at least 24 hours
- All laitance and efflorescence must be removed prior to application.

Cement based Renders & Screeds:

- Renders and screeds should have a wood float finish and be allow to cure for 5-7. (refer priming details for green screeds and renders).

Cement Boards and Sheets:

- All boards and sheet shall be installed in accordance with the manufacturer's instructions and be specifically designed for tiling applications.
- Screw and nail heads must be treated with a Sika® Neutral cure silicone or Sika® Fillet Joint.
- All sheet joints, seams, penetrations, and wall floor junctions shall have a Sika® Neutral cure silicone, Sikaflex® Fillet Joint or a suitable Sika® flexible waterproofing bandage.

SUBSTRATE PREPARATION

Substrate Priming Chart

Application	Primer
General Priming	SikaTile 010 Secure Prime
Green screeds or renders	Sikalastic® Moisture Seal
Autoclaved Aerated Concrete	SikaTile 010 Secure Prime
Existing tiles	Sika® Prep n Prime

Refer to the primer data sheet for additional information.

Static Cracks - not subject to movement

- Small hairline cracks, up to 1mm wide, may be filled by the first application of SikaTile®-110 Secure Proof
- For cracks / joints wider than 1mm, a joint filler should be applied along the length of the crack prior to the application of SikaTile®-110 Secure Proof

Non Dymanic Cracks - less than 3mm subject to movement

All cracks / joints, irrespective of their width, must be filled firstly with the bond breaker sealant. Then 50mm wide polyethylene / polypropylene tape should be placed over the crack, ensuring it adheres to the surface. Apply the SikaTile®-110 Secure Proof over the tape as per installation instructions.

Bond Breaker & Connector Sealants:

Suitable Bond Breaker sealant: Any Sika® neutral cure silicone sealants
Suitable connector sealant: Sikaflex fillet
The sealant applied must be tooled off to form a 12 mm wide bond breaker. 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.

Falls to Drains

In all wet areas, falls must be provided to the drain outlet. The slope of this fall should be 1:80 – which equates to a 12.5mm fall over 1m. For wet areas, balconies and rooftops, if the existing substrate does not provide the necessary falls, a sand / cement screed needs to be installed. All other wet areas shall have falls of 1:100 as per AS 3740:2021 Wet Area Membranes.
For balconies and external applications, the slope of this fall should be 1:100 – which equates to a 10mm fall over 1m. If the existing substrate does not provide the necessary fall, a sand / cement screed needs to be installed.

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately after us with water. Once cured, residual material 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.

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.

Sika Australia Pty Limited
ABN 12 001 342 329
aus.sika.com
Tel: 1300 22 33 48