

## PRODUCT DATA SHEET

# SikaTile®-111 Rapid Proof

A CLASS III RAPID DRYING WATER-BASED MEMBRANE WITH EASY FILM BUILD FOR UNDER TILE AND STONE WATERPROOFING

### DESCRIPTION

- SikaTile®-111 Rapid Proof is a rapid drying, water-based class III flexible waterproofing membrane designed for wet areas, balconies and other under tile and stone waterproofing applications.
- SikaTile®-111 Rapid Proof is ultra-fast drying and is ready for tiling after 2-3 hours.
- SikaTile®-111 Rapid Proof has unique colour changing technology, changes colour once fully dry.
- SikaTile®-111 Rapid Proof has superior film build designed to achieve dry film coverage easier than traditional under tile liquid applied membranes.

### USES

SikaTile®-111 Rapid Proof is designed for under tile and stone applications such as wet areas, balconies, podiums and other under tile waterproofing applications.

Typical substrates include;

- Concrete
- Cement-based screeds & renders
- Fibre cement sheeting / Ceramic Tile Underlay
- Structural particleboard with suitable overlaid sheeting or reinforced screed
- Water resistant plasterboard (internal only)
- GRC - Glass reinforced concrete
- AAC - Autoclaved aerated concrete
- Existing sound tiles (refer further details in substrate preparation)

### PRODUCT INFORMATION

<b>Packaging</b>	15Ltr Pails / 48 pails per pallet
<b>Shelf life</b>	If unopened, 12 months from date of manufacture
<b>Storage conditions</b>	Store in dry cool conditions out of direct sunlight. Do not allow to freeze or store in sub zero temperatures.
<b>Colour</b>	Wet - Blue, Dry - Navy blue

## APPLICATION INFORMATION

<b>Consumption</b>	A 15Ltr pail will cover 10m <sup>2</sup> with 2 coats when applied at 0.75Ltrs per coat	
<b>Layer thickness</b>	SikaTile®-111 Rapid Proof is designed to be applied in 2 coats to a finished dry film thickness of 1.00mm. Apply SikaTile®-111 Rapid Proof at a minimum 0.75Ltr per m <sup>2</sup> per coat. 2 coats applied at 0.75Ltr per m <sup>2</sup> will achieve a dry film thickness of 1.00mm.	
<b>Material temperature</b>	> 5°C - < 35°C	
<b>Ambient air temperature</b>	> 5°C - < 35°C	
<b>Dew point</b>	Application shall be 3°C above the dew point.	
<b>Applied product ready for use</b>	<b>Application</b>	<b>Wait time</b>
	wait time to second coat	2-2.5 hours
	Wait time prior to tiling	2-3 hours
Wait times are determined in laboratory conditions - 23°C and 50% relative humidity. Wait time may be slower or faster and the above table should be used only as a guide due to climate factors beyond our control.		

## 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.

## LIMITATIONS OF USE

- SikaTile®-111 Rapid Proof is not designed for exposed UV stable application and should be not left exposed for longer than 30 days. to minimise to chance of damage applied tile or stone covering as soon as possible to prevent the membrane being damaged.
- SikaTile®-111 Rapid Proof is designed for under tile and stone applications
- Do not apply if rain or bad weather is imminent.
- Ensure SikaTile®-111 Rapid Proof is applied at the recommended coverage rates.
- Do not allow SikaTile®-111 Rapid Proof to freeze.
- Timber and particleboard flooring shall be overlaid with a suitable fibre cement sheeting or reinforced screed.
- SikaTile®-111 Rapid Proof is not designed for submerged applications such as pools and spas.
- Refer to specific priming instructions for all applications.

## IMPORTANT CONSIDERATIONS

- Application shall be in accordance with the relevant National Construction Code and Australian Standards.

## 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

- Personal protective equipment
- Medium nap paint roller
- Paint brush

### SUBSTRATE QUALITY

#### Concrete

- All new concrete slabs shall have a wood float finish and be allowed to cure for at least 6 weeks.
- For early aged concrete seek technical advice.
- 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.
- If the concrete (new or old) has a steel trowel or power float finish, it must be mechanically abraded to expose the aggregate. Laitance must be removed prior to application.

#### Cement Based Renders & Screeds

- New rendered surfaces must have a wood float finish and be allowed to cure for at least 7 days
- Screeds shall be dry and firm and installed in accordance with relevant Australian Standards.
- Early aged screed refer to priming section for

primer selection.

### Light Weight Block / AAC Autoclaved Aerated Concrete & Polystyrene boards coated with cement-based layer.

- Prime substrates with 2 coats of a suitable porous primer, refer to primer section in this document

### Typical construction boards and sheeting

- Board and sheeting shall be specifically designed and suitable for tile and stone applications and installed in accordance with relevant Australian Standards and manufacturer instructions.
- Boards and sheets unless specified shall have joints filled with a suitable Sika® connector sealant.
- Prime boards and sheet with a suitable primer

### Existing tiles

- Existing tiles must be free from defects and soundly fixed.
- Gloss finished tiles shall be mechanically prepared prior to priming with a Sika non porous primer.

### SUBSTRATE QUALITY / PRE-TREATMENT

- Substrates shall be true and flat free from voids and divots, repair substrates as necessary prior to waterproofing works.
- All substrates to be waterproofed must be rigid, dry structurally sound and smooth. All grease, oil, wax, curing compounds, dust loose material must be removed prior to application.
- Substrates must be continuous and not pond water with adequate falls to waste in accordance with Australian Standards
- Concrete substrates shall accept water penetration. Should concrete not accept water mechanical preparation should be performed prior to priming and membrane application.

**Suitable Sika® Bond Breakers:** Any neutral cure Sika® silicone sealant

**Suitable Sika® Connector Sealant:** SikaFlex® Fillet  
Apply bond breakers and connector sealants in accordance with Australian Standards.

**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®-111 Rapid Proof

**Non Dynamic Cracks** - less than 3mm subject to movement

- All cracks / joints, irrespective of their width, must be filled firstly with the connector sealant. Then 50mm wide polyethylene / polypropylene tape should be placed over the crack, ensuring it adheres to the surface. Apply the SikaTile®-111 Rapid Proof over the tape as per application instructions.

### Substrate Priming

<u>Substrate</u>	<u>Suitable Primer</u>
Porous substrates	SikaTile® 010 Secure Prime
Non Porous substrates ie PVC puddle flange and metal grates	SikaTile® 015 Prep n Prime
Epoxy Primer / Vapour Barrier	Sikalastic® Moisture Seal or SikaFloor® 158 Fast Barrier

Refer to the specific primer product data sheet for the complete instructions.

### MIXING

Stir the membrane with a paddle prior to use.

### APPLICATION

- SikaTile®-111 Rapid Proof shall be applied in a minimum 2 coat application allowing to dry between coats.
- Apply the SikaTile®-111 Rapid Proof at a wet film thickness of 0.75 Litre per M<sup>2</sup> per coat to reach a dry film thickness on minimum 1.0mm.
- Periodical checking of application thickness is recommended to ensure dry film thickness are achieved.
- Allow membrane to dry for 2.5 - 3 hours after final coat before tiling.
- Protect the membrane from water ingress and damage prior to tiling.

### Flood Testing

Should flood testing be required refer to the below instructions.

- Allow membrane to dry for a minimum 24 hours at 23°C & 50% relative humidity. Additional drying time will be needed in climates below these specified temperatures.
- Fill the area with cool or cold water only minimum depth 25mm, maximum depth 65mm
- Flood test time shall be a maximum of 1 hour.
- Release water after 1 hour and inspect for defects and repair if required.
- Allow to dry prior to tiling.

Should a longer flood testing be required please contact Sika for instructions.

### CLEANING OF EQUIPMENT

Tools and equipment can be clean with water while the membrane is still wet.

## 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

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