BUILDING TRUST

SYSTEM DATA SHEET

SikaTile®-1100 Residential Wet Area System

DESCRIPTION

The SikaTile®-1100 Residential Wet Area System is designed as a completed compatible waterproofing and tiling system for residential wet areas for use with ceramic, porcelain, and mosaic tiles.

USES

Residential construction applications such as bathrooms & ensuites, laundries, toilets and other relevant residential wet areas.
Suitable for AS3958:2023 Performance level 1, floor tiling installation systems, able to withstand residential loads in kitchens, bathrooms & foyers etc.
Suitable tile types include;

- Ceramic tiles
- Porcelain tiles
- Vitrafied tiles
- Glass tiles
- Mosaic tiles
- Terracotta
- Natural stone not sensitive to moisture or discolouration.

For the installation of natural and agglomorated stone seek advice from Sika Technical Dept.

FEATURES

- Single source system
- Complete system compatibility
- Versatile and flexible with product options
- Excellent waterproofing properties
- Excellent crack isolation protection
- Excellent bond strength
- Stain resistant grout options

CERTIFICATES AND TEST REPORTS

Waterproofing compliance test reports - Branz test report AS 4858:2004

- SikaTile®-110 Secure Proof
- SikaTile®-111 Rapid Proof
- SikaCeram® Sealing membrane A system

Reports can be provided upon request

SYSTEM INFORMATION

System structure

SikaTile®-1100 Residential Wet Area System product selection chart

Application	Suitable Sika Product
1, Substrate Primers	
Porous Primer	SikaTile®-010 Secure prime
Non-porous primer	Sikafloor®-14 Prep N Prime Impact
2, Screeds & Mortar beds (where required)	Sand-cement fortified with LANKO® 751 Lankolatex SBR
	Sika® Eco Screed
	Sikafloor®-215 Rapid Screed
Slurry Bond Coat - bonded screeds	LANKO® 751 Lankolatex SBR mixed with Portland Cement
Screed reinforcement - unbonded screeds	Sika Confiber 19F
3, Moisture Barrier (where required)	Sikalastic® Moisture Seal
4, Waterproof membrane	SikaTile®-110 Secure Proof
	SikaTile®-111 Rapid Proof
	SikaCeram® Sealing Membrane A System
Flexible waterproofing Tape (Optional)	Sika® SealTape F
	Sika® SealTape B
5, Tile adhesives	SikaTile®-305 Master Lite
	SikaTile®-366 Pro Flex
	SikaTile®-374 Mega Pro (walls only)
	SikaTile®-400 Evo Pro
	SikaTile®-410 Secure Set*
	SikaTile®-440 Opti-Cure*
	SikaTile®-510 Mega Lite*
6, Tile grout	Davco Sanitized Colorgrout
	SikaCeram®-690 Elite
	SikaCeram®-880 Easy Epoxy

* Use these adhesives when fixing opaque or translucent tiles, stone and mosaics.

Floor covering	SikaTile®-1100 Residential Wet Area System is designed for use with ceramic, porcelain, natural and manufactured stone not sensitive to moisture and discolouration and mosaic tiles. All tile types shall be fit for purpose and specifically suitable for residential wet area applications.

APPLICATION INFORMATION

Material temperature	All materials shall be stored in accordance with the product data sheet recommendations. When materials are stored onsite, avoid storing material in hot conditions, store materials in dry cool conditions.
Ambient air temperature	5°C - 35°C
Substrate moisture content	Surfaces that exhibit moisture readings greater than 75% moisture content may need additional drying or be treated with a suitable Sika Moisture Barrier.

Waterproofing membrane	Maximum moisture content	Suitable Moisture Barrier
SikaTile-110 Secure Proof	80% RH	Sikalastic® Moisture Seal
SikaTile-111 Rapid Proof	80% RH	Sikalastic® Moisture Seal
Sealing Membrane A - Internal applications	80% RH	Sikalastic® Moisture Seal + Sikafloor®-14 Prep N Prime Impact
Sealing Membrane A - External applications	75% RH	Sikalastic® Moisture Seal + Sikafloor®-14 Prep N Prime Impact

- Refer to the specific product data sheet for relevant products prior to use.
- Non destructive moisture meters shall be used as a guide only.

Substrates	SikaTile®-1100 Residential Wet Area System is designed for common construction substrates such as concrete, masonry, light weight construction boards coating with cement-based coatings, boards and sheets shall be specifically designed to receive a tiling system. Refer to board and sheet manufacturer instructions and load limits.

Applied product ready for use

Application	Wait time
Light traffic	24 hours
Wet area service	72 hours

When measured at 23°C and 50% relative humidity. Wait times are subject to application conditions, air flow, and climate.
Use chart 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.

FURTHER DOCUMENTATION

- Applications shall be in accordance with Product Data Sheets (PDS), National Construction Code (NCC) and relevant Australian standards.
- Refer to each product data sheet for the complete user instructions prior to use.
- Substrates shall be prepared and installed in accordance with manufacturers instructions and relevant AS standards.
- SikaTile®-1100 Residential Wet Area System is not designed for applications such as fully submerged applications such as pools, spas, roman baths etc. For these applications seek Sika technical recommendation.
- Tiling over early age screeds and concrete may increase the likelihood of the occurrence of efflorescence.
- Efflorescence is beyond the control of the manufacturer due to external influences beyond our control.
- When using opaque, or translucent tiles, stone or mosaics refer to the System Structure section in this document
- For applications outside this document seek technical advice.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Concrete substrates

- Concrete shall meet requirement of AS 3600:2018, AS 3740:2021, AS 3959:2023.
- Concrete shall be clean and dry and adequately cured in accordance with AS 3958:2023 prior to works.
- Concrete shall be prepared to a CSP 1-3 prior to waterproofing and tiling works. Any pit, voids or protrusion in the surface shall be repaired with a suitable Sika repair mortar prior to works.Steel trowel finished concrete shall be mechanically prepared.
- Concrete that exhibits elevated moisture, refer to substrate moisture section in this document.

Screeds & Mortar beds

- Sand-Cement Screeds should generally be fortified with Lanko Latex 751 Additive and be installed in accordance with AS3958:2023. Sand-cement screed shall be allowed to dry for a minimum of 5-7 days prior to covering.
- Sika engineered screeds are faster drying and can be covered after 24 hours when measured at 23°C and 50% relative humidity.
- Bonded screeds shall have an appropriate slurry bond coat consisting of Lanko latex 751 additive mixed with neat Portland Cement. Screed shall be placed over the slurry "wet to wet" prior to the slurry bond coat skinning or drying.
- Screed shall be adequately compacted and falls to wastes created in accordance with waterproofing requirements.
- Unbonded screed shall have an appropriate separation layer of 200µm polythene sheet or similar material to separate the screed from the substrate. Unbonded screeds can be reinforced with galvanised wire and per AS 3958:2023 or Sika® Confibre® 19F.

Blockwork / Concrete Masonry Units -CMU

- Blockwork shall be cleaned and prepared with a suitable render ie Sikawall 120 Pro Render and allowed to dry.
- Other renders may be appropriate if they are designed to accommodate the expected loads of a tiling system.

Autoclaved Aerated Concrete (AAC) and light weight concrete panels and blocks

- Due to their highly porous nature apply minimum 2 coats of the SikaTile®-010 Secure Prime.

Fibre cement sheet - CTU, CFC, & FC Boards and Plasterboard

- Fibre cement sheeting and plasterboard shall comply with applicable Australian standards and be installed in accordance with the relevant AS standards and designed to receive a tiling system.
- Surfaces shall be cleaned and free from dust and debris and be fixed in accordance with the manufacturer's instructions.
- FC sheets shall be a minimum of 6mm for wall and floor applications.
- Surfaces shall be primed prior to waterproofing and direct tile bonding.

Timber, Plywood and Particleboard

- All timber or wood based substrates shall be either oversheeted with a suitable fibre cement sheet or covered with an unbonded reinforced screed. Refer to AS 3958:2023 requirements.

SUBSTRATE PREPARATION

- Surface shall be primed with a suitable primer prior to waterproofing and tiling.
- Surfaces that have a waterproofing membrane applied shall have tiles directly bonded to the waterproofing membrane.

Prime surfaces with a suitable primer, refer to **System Structure** section in this document.
Allow primers to dry prior to subsequent works.

APPLICATION

Applications shall be in accordance with the latest product data sheet (PDS).
Waterproofing applications shall be in accordance with National Construction Code (NCC) requirements other applicable Australian Standards:

- AS 3958:2023 The installation of ceramic & stone tiles
- AS 3740:2021 Waterproofing of Domestic Wet Areas

CURING TREATMENT

- Protect installation during and after completion of works prior to commissioning the area for service

MAINTENANCE INSTRUCTIONS

CLEANING

- Use a pH Neutral cleaner for regular cleaning and maintenance
- Avoid using aggressive acidic chemical in regular cleaning regimes
- If aggressive (acidic) cleaning regimes are used ensure SikaCeram-880 Easy Epoxy grout is used.

MAINTENANCE

- Silicone expansion joints are considered a maintenance product and shall be maintained, repaired and reappplied as required throughout the life of the SikaTile®-1100 Residential Wet Area System.

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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