BUILDING TRUST

SYSTEM DATA SHEET

SikaTile®-1110 Residential External Tiling System

DESCRIPTION

SikaTile®-1110 Residential External Tiling System is a premium, fully compatible under-tile waterproofing and tiling solution specifically engineered for residential external applications. Designed as a complete system approach, it delivers reliable high-performance, enhanced durability, and assured compatibility between all waterproofing, adhesive, and grout components.

USES

- Designed for use with most tile types including ceramic, porcelain, slate, terracotta, mosaics and vitrified tiles.
- SikaTile®-1110 Residential External Tiling System can be used externally for balconies, patios, podiums, terraces, walkways, around pools and spas and other typical external waterproofing & tiling works.

SikaTile®-1110 Residential External Tiling System is designed for use with;

- Ceramic
- Porcelain
- Quarry tiles
- Vitrified tiles
- Terracotta
- Pavers
- Slate
- Mosaics
- Natural and manufactured stone not sensitive to moisture or discolouration.

Seek technical advice for tile types not mentioned in the document.

- SikaTile®-1110 Residential External Tiling System is designed for AS3858:2023 Table 3.2.2 Performance level 1 able to withstand residential loads.

FEATURES

- Full system compatibility
- Versatile, system options and product choices
- Excellent waterproofing and crack isolation protection to prevent leak and cracking tiles
- Exceptional bond strength
- Resistant to thermal stresses
- All products are Low VOC

CERTIFICATES AND TEST REPORTS

AS 4654 testing for the following waterproofing membranes

- SikaCeram® Sealing Membrane A
- SikaTile®-110 Secure Proof
- SikaTile®-111 Rapid Proof

SYSTEM INFORMATION

System structure

SikaTile®-1110 Residential External Tiling System Product Selection Chart

Application	Suitable Sika product
Substrate Primers	
Porous primer	SikaTile®-010 Secure Prime
Non-porous primer	SikaTile®-14 Prep n Prime Impact
Screeds & Mortar Beds	Sand/cement screed fortified with LANKO 751 Lankolatex SBR Sika® Eco Screed Sikafloor®-215 Rapid Screed
Slurry bond coat (bonded screeds)	LANKO 751 Lankolatex SBR with neat Portland cement
Screed reinforcement (unbonded screeds)	Sika Confiber 19F
Waterproofing Membranes (where required)	SikaCeram® Sealing Membrane A SikaTile®-110 Secure Proof SikaTile®-111 Rapid Proof
Flexible Waterproofing Tape (optional)	Sika® SealTape F Sika® SealTape B
Suitable cement-based tile adhesives	SikaTile®-305 Master Lite SikaTile®-350 Pro Maxset SikaTile®-366 Pro Flex SikaTile®-400 Evo Pro SikaTile®-410 Secure Set* SikaTile®-440 Opti-Cure* SikaTile®-510 Mega Lite*
Suitable tile grouts	Davco Sanitized® Colorgrout SikaCeram®-690 Elite SikaCeram®-880 Easy Epoxy with SikaCeram®-960 Epoxy Finish

* when using opaque or translucent tiles, stone or mosaics use one these adhesives.

APPLICATION INFORMATION

Material temperature	Materials shall be stored in accordance with product data sheet recommendations. Materials stored onsite shall be kept out of direct sunlight in dry cool conditions Do not allow materials to freeze
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
Substrates	SikaTile®-1110 Residential External Tiling System is designed for the following substrates ▪ Concrete ▪ Suitable construction boards designed to receive tile installation (requires relevant waterproofing membrane - refer to system structure section in this document for relevant waterproofing options.
Applied product ready for use	Refer to all relevant product data sheets for specific wait time prior to next application.

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

- All 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 manufacturer's instructions and relevant AS standards.
- SikaTile®-1110 Residential External Tiling 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.
- For applications not mentioned in this document seek technical advice.

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 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 suit able 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 751 Lankolatex SBR additive and be installed in accordance with AS 3958:2023. 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 751 Lankolatex SBR 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 re quirements.
- Unbonded screed shall have an appropriate separation layer of 200µm polythene sheet or similar material to separate the screed from the substrate.
- Unbonded screeds shall be reinforced with galvanised wire and per AS 3958:2023 or Sika Confiber 19F.

Blockwork / Concrete Masonry Units -CMU

- Blockwork shall be cleaned and prepared with a suitable render i.e. SikaWall®-120 Pro Render and allowed to dry. Other renders may be appropriate if they are de signed to accomodation 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®-110 Secure Proof.

Fibre cement sheet - CTU, CFC, & FC Boards

- Fibre cement sheeting and FC Boards shall comply with applicable Australian standards and be installed in accordance with the relevant AS standards and designed to receive tiling systems.

Surfaces shall be cleaned and free from dust and debris and be fixed in accordance with the manufacturer's instructions.
FC sheeting shall be a minimum of 6 mm for wall and floor applications. Surfaces shall be primed prior to waterproofing and direct tile bonding.

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 water proofing membrane (no primer required).
- 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

MAINTENANCE INSTRUCTIONS

CLEANING

- Use a pH neutral cleaner for regular cleaning regimes
- Avoid using aggressive acidic cleaning chemicals for regular cleaning regimes

MAINTENANCE

- Silicone expansion joints are considered a maintenance product and shall be maintained, repaired and re-applied as required throughout the life of the SikaTile®-1110 Residential External Tiling 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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