

PRODUCT DATA SHEET

SikaTile®-305 Master Lite

A HYBRID LIGHT WEIGHT POLYMER FORTIFIED TILE ADHESIVE

DESCRIPTION

SikaTile®-305 Master Lite is a hybrid light weight polymer fortified tile adhesive suitable for internal and external applications including residential pools and spas on both wall and floor substrates.

USES

SikaTile®-305 Master Lite can be used as a thin-bed tile adhesive for the following applications,

- Wall and floor tiling applications
- Internal and external applications
- Wet area and balcony tiling
- Pool and spa tiling (concrete construction)
- Under tile heating systems
- Sika approved acoustic reduction underlayments

Suitable Substrate Include:

- Concrete
- Cement-based renders and screeds
- Suitable Sika waterproofing membranes designed to receive direct fixed tile
- Cement boards or sheeting*
- Existing Ceramic tiles (primed with Sikafloor-14 Prep N Prime Impact)
- Plasterboard (internal only)
- other suitable construction boards designed to receive tiles*

* refer to board manufacturers strict instructions for further details and load limits

Suitable Tile Types Include:

- Ceramic & Porcelain tiles
- Mosaic tiles
- Quarry and Vitrafiied tiles
- Stone not sensitive to moisture and dimensionally stable

FEATURES

- Hybrid technology - very high coverage
- White colour - colour may vary dependant on local sand source.
- C2TES1 - AS ISO Performance
- Versatile - internal, external, external, pools.
- Flexible
- Low VOC

PRODUCT INFORMATION

Packaging	15kg bag
Appearance and colour	Manufactured using white cement, colour will be influence by local sand source.
Shelf life	If unopened 12 months from date of manufacture.
Storage conditions	Store in dry cool conditions, off ground out of direct sunlight. High humidity will reduce shelf life.

APPLICATION INFORMATION

Mixing ratio	5.5 - 6 Litres of clean cool potable water per 15kg bag	
Consumption	7.5m ² with a 10mm notched trowel Coverage is dependant of surface profile and application technique.	
Pot Life	2 hours at 23° degrees and 50% relative humidity. Adhesive may need restirring during its pot life. Restir without adding any additional water.	
Open Time	30 minutes at 23°C degrees and 50% relative humidity	
Applied product ready for use	Application	Wait Time
	Grouting and light foot traffic	24 Hours
	Wet Area Service	5 Days
	Submerged Applications ie pools	21 Days
<p><i>* Wait times are tested at 23°C and 50% relative humidity and should be used as a guide only.</i></p> <p><i>Hot climates reduce wait times, and cool or cold climates will extend wait times.</i></p>		

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

- Test product in an inconspicuous area first
- Do not apply in temperatures above 35°C or below 5°C
- Do not allow the adhesive to skin prior to laying the tiles. If the adhesive skins remove and dispose of it, then re-apply fresh adhesive
- Not suitable for moisture sensitive stone, seek further advice from Sika technical support.
- Not suitable for use for direct application over timber substrates. Apply a suitable screed or ceramic tile underlay over timber substrates.
- Due to external influences efflorescence is beyond the control of the manufacturer
- Setting times of the adhesive can be affected by site conditions, climate and could be faster or slower than specified.
- Not suitable for applications externally above 3 meters.
- Not suitable for fixing resin backed tile and stone. Prime resin back tiles with SikaFloor-14 Prep n prime prior to fixing, and refer to product information and limitations on the product data sheet
- Contact Sika Australia for uses not mentioned in this document.

FURTHER DOCUMENTATION

It is essential to plan the area to be tiled, with the inclusion of movement joints, in accordance with the relevant Australian Standard AS3958:2023 . Failure to do so may result in drummy or lifting tiles.

Make sure normal building or surface movement is accommodated by installing movement joints as follows:

- Over movement joints in the substrate
- At a junction between different substrate materials
- At fixtures interrupting the tile surface e.g. columns
- At internal vertical corners
- Around the perimeter of the tiling system
- At a maximum of 4.5m centres, in a grid pattern
- Movement joints should be kept free from dirt and adhesive
- All movement joints can be filled with a suitable Sika sealant and suitable backing rod or backing tape

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
- Mixing drill with stirrer attachment
- Clean mixing buckets
- Trowels

SUBSTRATE QUALITY

All surfaces must be installed according to manufacturer's instructions and or relevant Australian Standard(s) and be structurally sound, dry, clean and free from movement, oil, grease, wax, sealers, curing compounds, release agents and any other loose or contaminating material. Thoroughly clean old surfaces, or new surfaces that have been treated, prior to tiling. Deeply contaminated surfaces must be prepared/abraded to a clean, sound surface. Expose at least 80% of the original substrate of painted surfaces. Substrates shall meet relevant deflection standards outlined in the relevant Australian Standards (AS3958).

CONCRETE SUBSTRATES:

New concrete shall be 14 days old and be left with a wood float finish.

Steel trowel finished concrete is generally acceptable if the concrete allows water penetration.

Concrete above 35MPa shall be mechanically prepared.

CEMENT BOARD AND SHEETING:

All boards and sheets must be fixed in accordance with the manufacturer's instructions and specifically designed for tiling.

SCREEDS & MORTAR BEDS:

Sand cement screeds must be installed as per relevant Australian Standards and left for a minimum 24 hours prior to tiling. Screeds may need longer drying time in cold climates.

TILE ON TILE APPLICATIONS:

Ensure all existing tiles are firmly fixed, loose or hollow tiles must be removed and the area repaired using a suitable Sika repair mortar. Existing tiles shall be adequately cleaned prior to the application of the primer. Existing tiles shall be primed with Sikafloor-14 Prep N Prime Impact and allowed to dry prior to tiling.

SUBSTRATE PREPARATION

All surfaces except waterproofing membranes shall be primed prior to application.

Priming Guide:

Application	Primer
Porous & Dense substrates	SikaTile 010 Secure prime
Non-porous substrates and Tile on tile	Sikafloor-14 Prep n Prime Impact

Refer to the relevant product data sheet for the primer for additional information.

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Product Data Sheet

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MIXING

Measure recommended amount of clean cool potable water and slowly add the SikaTile®-305 Master Lite powder. Gradually stir the mixture until it reaches a smooth lump free consistency (approximately 2 minutes).

Allow the mixture to stand or "slake" for 3-5 minutes then restir for an additional minute without add any additional water.

Restiring during the adhesives pot life may be required, do not add any additional water, restir only.

APPLICATION

- Tiles shall be fixed in accordance with Australian Standards.
- Ensure the back of tiles are free from dust and contaminants.
- Apply the adhesive with a notched trowel to the substrate to achieve minimum coverage requirement outlined in the relevant Australian Standards.
- Adhesive notches should be applied in a single direction.
- Apply tiles into the wet adhesive and break the adhesive notches to fully bed the tile in the adhesive layer. Ensure adequate coverage outlined in the Australian Standards is achieved to both substrate and the back of tiles.
- Tiles 400x400 and larger shall be back buttered as per relevant Australian Standards.
- Clean excess adhesive out of the grout joints while the adhesive is still wet.
- Allow the adhesive to dry and set prior to grouting.

CLEANING OF EQUIPMENT

Tools and equipment can be cleaned with water prior to the adhesive setting.

Adhesive that has set will require mechanical removal.

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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