

PRODUCT DATA SHEET

SikaTile®-400 EVO PRO

A FLEXIBLE CEMENT-BASED TILE ADHESIVE WITH PATENTED DUST LESS® TECHNOLOGY DESIGNED FOR NATURAL STONE, PORCELAIN AND MOSAICS.

DESCRIPTION

SikaTile®-400 EVO PRO is a flexible, cement-based tile adhesive designed for natural stone, porcelain and mosaics.

SikaTile®-400 EVO PRO has superior non-slump properties making it suitable for large format tile and stone applications.

SikaTile®-400 EVO PRO is equipped with patented DUST LESS® technology which reduces airborne dust in the mixing phase by up to 80% achieving improved air quality, better working conditions, less mess and faster clean up.

SikaTile®-400 EVO PRO is free from Respirable Crystalline Silica.

USES

SikaTile®-400 EVO PRO is suitable for internal and external applications.

Commercial and domestic walls and floors including high foot traffic locations, bathrooms, showers, kitchens, laundries, living rooms, balconies, patios, swimming pools and spas.

Suitable tile types include;

- Ceramic & Porcelain tiles
- Mosaic tiles
- Natural stone* including Marble, Granite, etc
- Engineered stone/Manmade stone

*Not suitable for use with tile and stone sensitive to moisture/water.

Suitable substrates include;

- Concrete
- Cement boards & sheets
- Cement renders and screeds, including early aged screeds
- Rendered brick and blockwork
- Light weight construction boards coated with cement coatings
- Sika approved acoustic underlayment's
- Under tile Sika waterproofing membranes
- Under tile heating systems
- Tile on tile applications when used with SikaTile 015 Prep n Prime
- Timber and particleboard flooring over-sheated with ceramic tile underlay or a suitable reinforced screed

FEATURES

- Contains patented DUST LESS® Technology that reduces airborne dust by up to 80% during the mixing phase.
- Free from Respirable Crystalline Silica
- Commercial grade
- Suitable for swimming pools and spas
- Suitable over under tile heating systems
- Non-Slump suitable for large format tiles
- Non vertical slump for easy wall tiling

CERTIFICATES AND TEST REPORTS

Green Star - VOC Content Test Certificate
Green Star Design & As Built V1.1-13.1.1B
Green Star Interiors V1.1-12.1.1B
2 Grams per litre as VOC content per material

PRODUCT INFORMATION

| | |
|-----------------------|---|
| Packaging | 20kg bags |
| Appearance and colour | White powder |
| Shelf life | If unopened 12 months from date of manufacture. |

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|--|--|
| Storage conditions | Store in dry cool conditions, elevated out of direct sunlight. |
| Product declaration | C2TES1 as per AS ISO 13007. |
| Volatile organic compound (VOC) content | Low VOC - 2g/L (SCAQMD method 304-91) |

APPLICATION INFORMATION

| | | |
|---|--|-------------------------------------|
| Mixing ratio | 5 - 6 Litres of clean potable water per 20kg bag | |
| Consumption | 20kg Bag of SikaTile®-400 EVO PRO covers approximately 6-7m² with a 10mm notched trowel. | |
| Pot Life | 1.5 hours | |
| Open Time | 30 minutes | |
| Applied product ready for use | Application | Wait time |
| | Set time prior to grouting | 24 hours |
| | Set time prior to dry area service | 24 hours |
| | Set time prior to wet area service | 2 days |
| | Set time prior to return to sub-merged area service | 21 days prior to filling with water |
| All application information measurements are taken at 22°C and 50% relative humidity. Specifications vary according to site conditions and should be taken as a guide only. | | |
| Adjustability time | 20 minutes | |

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.
- For applications externally above 3 meters use in conjunction with shelving angles or mechanical fixing systems.
- SikaTile®-400 EVO PRO is not suitable for fixing resin backed tile and stone. Prime resin back tiles with SikaTile 015 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 . 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 stirring attachment
- Clean mixing buckets

- Trowels

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, 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 7 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 SikaTile 015 Prep n Prime and allowed to dry prior to tiling.

SUBSTRATE PREPARATION

Prime substrates with a suitable Sika primer prior to adhesive application.

Substrate

Concrete wood float finish

Concrete steel trowel finish

Concrete +35MPa compressive strength

Concrete with crystalline additives or curing compounds still present

Porous cement board and sheets

Dense/non-porous cement boards

Cured cement-based renders and screeds

Autoclaved Aerated Concrete (AAC)

Cement coated lightweight foam boards

Existing tiles

Primer

SikaTile® 010 Secure Prime

SikaTile® 010 Secure Prime

Mechanically prepare then SikaTile® 010 Secure Prime

Mechanically prepare then SikaTile® 010 Secure prime

SikaTile® 010 Secure Prime

SikaTile® 015 SikaTile Prep n Prime

SikaTile® 010 Secure Prime

SikaTile® 010 Secure prime (2 coats)

SikaTile® 010 Secure Prime (1-2 coats)

SikaTile® 015 Prep n Prime

- Refer to the specific primer product data sheet for additional information and instructions.
- Priming is not required directly over suitable Sika waterproofing membranes.

MIXING

Measure the recommended amount of clean potable water in a clean mixing pail, gradually add the SikaTile®-400 EVO PRO powder while mixing with the drill until it reaches a smooth lump free trowel-able consistency. Allow the mix to stand / slake for 5 minutes then restir for an additional minute. Remix without adding additional water during the adhesives pot life.

APPLICATION

Tiles shall be fixed in accordance with the relevant 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 Australian Standards AS 3958.
- Apply the adhesive in a single direction and avoid swirls in the adhesive.
- 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.
- Clean any residual adhesive off the face of the tile and out of the grout joints while the adhesive is still wet.
- Expansion joints shall be installed as per relevant Australian Standards.

CLEANING OF EQUIPMENT

Tools and equipment can be cleaned with water prior to the adhesive setting. Adhesive that has set will require mechanical removal.

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.

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Product Data Sheet

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