

PRODUCT DATA SHEET

SikaCeram[®]-101 Thixo

CEMENTITIOUS TILE ADHESIVE, C1T CLASSIFIED ACCORDING TO EN 12004-1



DESCRIPTION

SikaCeram[®]-101 Thixo is one-pack, premixed, white, cementitious tile adhesive with low slip, containing selected aggregates, special admixtures and polymers. SikaCeram[®]-101 Thixo can be used for tile bonding at a thickness layer up to 10mm, for internal applications, on horizontal and vertical surfaces.

USES

SikaCeram[®]-101 Thixo can be used for bonding the following types of ceramic tiles:

- Monocoturra, bicoturra tiles
- Artificial granite tiles
- Cotto and ceramic mosaic

SikaCeram[®]-101 Thixo can be used on different substrates including:

- Concrete and cement based mortars
- Bricks, plasters

SikaCeram[®]-101 Thixo can be used for floors in areas such as:

- Kitchens, bedrooms
- Bathrooms, WC
- Balconies
- Offices, warehouses

CHARACTERISTICS / ADVANTAGES

- Highly thixotropic - No vertical slip
- Excellent adhesion on most substrates
- Fast application, easy laying of tiles
- Applicable in thicknesses up to 10mm

APPROVALS / CERTIFICATES

CE Marking and Declaration of Performance according to EN 12004-1 - Adhesives for ceramic tiles

PRODUCT INFORMATION

Composition	Portland cement, selected aggregates, special additives and polymers
Packaging	25 kg bags
Appearance / Colour	Powder, white
Shelf life	12 months from date of production
Storage conditions	Store in original unopened, sealed and undamaged packaging in dry conditions, at temperatures between +5°C and +35°C.
Density	Fresh mortar density: ~ 1,60 kg/l (at +20°C)
Maximum Grain Size	~ 0,5 mm
Product Declaration	CE-marking and Declaration of Performance as normal setting cementitious adhesive with reduced slip, C1T, according to EN12004:2007, based on assessment by notified laboratory and factory production control.

TECHNICAL INFORMATION

Tensile Adhesion Strength	$\geq 0,5 \text{ N/mm}^2$ (Initial) $\geq 0,5 \text{ N/mm}^2$ (after Heat Ageing) $\geq 0,5 \text{ N/mm}^2$ (after Water Immersion) $\geq 0,5 \text{ N/mm}^2$ (after Freeze/Thaw cycles)	(EN 12004-2)
Slip Resistance	$\leq 0,5 \text{ mm}$	(EN 12004-2)

APPLICATION INFORMATION

Mixing Ratio	7,0 – 8,0 L of water per 25 kg bag		
Consumption	The consumption depends on the surface profile and roughness of the substrate as well as on the size of the tiles and the placing technique, simple placing (application to one surface only “notched trowel or floating method”) or back-buttering (application to both surfaces “floating and buttering method”).		
	Tile size	Trowel size	Consumption
	Small size tiles	6 mm	~ 2 – 3 kg/m ²
	Normal size tiles (20x20cm – 45x45cm)	8 mm	~ 3 – 4 kg/m ²
Layer Thickness	max. 10 mm		
Ambient Air Temperature	+5°C min. / +35°C max.		
Substrate Temperature	+5°C min. / +35°C max.		
Pot Life	~ 3-4 hours at +23 °C		
Open Time	≥ 20 minutes (tensile adhesion strength) $\geq 0,5 \text{ N/mm}^2$		(EN 12004-2)
Adjustability Time	~ 30 min. at +23 °C		
Applied Product Ready for Use	Before grouting on floor – light foot traffic	24* hours	
	Before grouting on wall	5-12* hours	
	Full traffic	~14* days	

* Values got at laboratory conditions: 23°C \pm 2°C – R.H. 50% \pm 5%. Higher temperatures reduce the indicated lapse times, oppositely, lower temperature increase them.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

In normal conditions, no primer is required when the product is applied on cementitious substrates, plaster and concrete. In case of highly absorbent or demanding substrates, the following primers can be used:

Substrate	Primer
Porous substrates	Sika® Primer-11 W+
Pore sealing / Adhesion promoter	SikaTop®-10

In any other substrates, please consult the technical department. For further information please refer to the respective product data sheet of the primer used. The substrate must be cement laitance free, clean and free from dirt, oil, grease or other contaminants and loose or friable particles.

The substrate must be perfectly flat, sound and correctly aged. Any small gradients or bumps can be leveled and filled with a layer of SikaCeram®-101 Thixo, at maximum thickness of 5 mm, applied at least

24 h before the laying process. For higher thickness, site-batched mortars prepared with SikaLatex® Max or Sika ViscoBond® or repair mortars Sika MonoTop® or SikaRep® are to be used.

In cases of demands for levelling the substrate, the self-leveling mortars from the Sikafloor® Level range can be used.

MIXING

Mix 25 kg bag with the necessary, above mentioned amount of water, using an electric mixer with a suitable mixing spiral at low speed (500 rpm maximum, in order to avoid air occlusion), in a clean bucket and until obtaining a smooth, lump-free paste.

After mixing, leave the product to stand for 5min. and then briefly stir it again prior to application. The obtained mix results very creamy, easily spreadable and highly thixotropic.

APPLICATION

SikaCeram®-101 Thixo is applied using notched trowel. The amount of product should be enough to ensure complete wetting of the tiles' rear. Tiling has to be carried out on the fresh adhesive, exerting adequate pressure to ensure contact with the adhesive and thus the perfect adhesion. In case a surface film is formed on the adhesive, it is necessary to wipe the trowel on the adhesive layer previously applied. Avoid wetting with water the already applied adhesive as this can impair the bonding process. Select the suitable trowel size depending on the tile size. SikaCeram®-101 Thixo can be used for fixing low absorbance tiles of maximum size:

Tile size	Use
Up to 2.100 cm ² (e.g. 45cm x 45cm)	Internal floor substrates
Up to 1.000 cm ² (e.g. 30cm x 30cm)	Internal wall substrates

This limitation applies for cementitious, non-heated substrates. For all other substrate types, please contact our technical department.

To lay tiles of total surface of 900 cm² and larger (e.g. 30x30 cm), the double-spreading (floating and buttering) technique of adhesive application is always recommended.

CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be mechanically removed.

IMPORTANT CONSIDERATIONS

- Do not exceed the recommended water dosage. Apply only on sound, suitably prepared substrates. Do not exceed the maximum layer thicknesses (10 mm).
- If additional waterproofing underneath the tiles is required, then the following products can be used: SikaTop® Seal 107 FL-X, Sikalastic®-152, Sikalastic®-1K, Sika® SealTape-S.
- Protect freshly applied material from freezing conditions and rain, e.t.c.
- Pre-dampening of tiles is not required.

Please refer to the relevant product data sheets or contact our Technical Department.

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Product Data Sheet
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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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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.

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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