

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-101

POLYMER CONTAINING, WATER RESISTANT, CEMENTITIOUS TILE ADHESIVE FOR THIN BED APPLICATION

## DESCRIPTION

SikaCeram<sup>®</sup>-101 is C1 T class, onepack, polymer (latex) containing, water resistant, premixed adhesive. Consisting of high resistance cements, selected silicon/quartz mineral charges and specific additives, used as thin bed tile adhesive for permanent fixing of ceramic tiles.

Suitable for use in hot and tropical climatic conditions.

## USES

- Suitable for bonding of high absorption ceramic tiles, earthenware, extruded and refined porcelain tiles (only indoor)
- Suitable for bonding of large size tiles Industrial environment, wet areas (bathrooms, kitchens, balconies, terraces, etc.)
- Suitable for indoor floor and wall applications, as well as external floor application.
- Suitable for moisture tolerant natural stone
- Suitable for application above concrete, mortar, bricks and plaster

## PRODUCT INFORMATION

<b>Composition</b>	Portland cement, selected aggregates and polymers
<b>Packaging</b>	25 kg and 40 kg bag
<b>Shelf life</b>	12 months minimum from date of production
<b>Storage conditions</b>	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between 5 °C and 35 °C. Protect from direct sunlight, heat and moisture.
<b>Appearance and colour</b>	Grey and white powder
<b>Maximum grain size</b>	~0.5 mm

## CHARACTERISTICS / ADVANTAGES

- Very good adhesion
- Easy to mix and use
- Excellent workability and thixotropic consistency
- Water and weather resistant
- Single component system

## SUSTAINABILITY

SikaCeram<sup>®</sup>-101 is certified according "Low Emitting Materials as per Al Sa'fat - Dubai Green Building Evaluation System" by Dubai Central Laboratory (DCL) certificate No. CL17020432

## APPROVALS / CERTIFICATES

SikaCeram<sup>®</sup>-101 follows the requirements of EN 12004 class C1 T.

## TECHNICAL INFORMATION

<b>Tensile adhesion strength</b>	grey w/p = 0.22	Value	Requirements EN	(EN 12004-2)
	white w/p = 0.23		12004-1, class C1	
	Initial	≥ 0.7 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>	
	After water immersion	≥ 0.5 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>	
	After heat ageing	≥ 0.5 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>	
<b>Slip resistance</b>	Value	Requirements	(EN 12004-2)	
	w/p=0.22	EN 12004-1, class T		
	≤ 0.5 mm	≤ 0.5 mm		

## SYSTEM INFORMATION

<b>System structure</b>	In normal conditions no primer is required. However for very high absorbent substrates please refer to Sika Technical Department.
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## APPLICATION INFORMATION

<b>Mixing ratio</b>	5.5 to 5.75 L of water per 25 kg bag, 8.8 to 9.2 L of water per 40 kg bag	
<b>Consumption</b>	<p>Powder consumption and coverage depends on the surface profile and roughness of the substrate, size and reverse profile of the tiles and the placing technique (simple placing "floating" or back to back "buttering-floating").</p> <p>As a guide: For 1 mm thickness over 1 m<sup>2</sup> area approximately 1.4 kg of powder is required. For small sized tiles (side ≤30 cm), use small squared notch size trowel (4-6 mm) and progressively increases for medium tiles (side ≤45 cm, trowel 6-8mm) or large tiles (side ≤60 cm, trowel 8-10 mm)</p> <p>This figure is theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.</p>	
<b>Layer thickness</b>	Min. 2 mm Max. 5 mm (locally up to 12 mm thickness possible, for leveling purpose)	
<b>Ambient air temperature</b>	+5 °C min. / +35 °C max.	
<b>Substrate temperature</b>	+5 °C min. / +35 °C max.	
<b>Pot Life</b>	~3 h (23 °C)	
<b>Open Time</b>	~10 min. (23 °C) (EN 12004-2)	
<b>Adjustability time</b>	~30 min. (23 °C)	
<b>Applied product ready for use</b>	Floor tiles can be grouted	After 24 - 36 h
	Wall tiles can be grouted	After 4 - 6 h
	Surface can be used after	After 14 d

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

- Protect freshly applied material from rain, wind, etc.
- Make a test area prior to carrying out any work with natural stones.
- White version of tile adhesive is recommended for translucent natural stone tiles.

- It is not usually necessary to pre-dampen the tiles.
- For gypsum board substrate, primer need to be applied, please contact Sika Technical Department.
- For application above waterproofing layers, please contact Sika Technical Department.

SikaCeram®-101 shall not be applied on the following cases:

- On metal surfaces and wood
- On old ceramic tiles
- On water immersed areas for example swimming pools.
- For stone wares and porcelain tiles in large size (side > 60 cm)
- For external walls

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be cement laitance free, clean, rough and free from dirt, oil, grease or other contaminants and loose or friable particles. Absorbent surfaces should be saturated thoroughly with clean water. The substrate must be perfectly flat, tight and free from parts easily removable, non-deformable and correctly aged. For any repairs of the substrate materials of SikaRep®, Sika MonoTop® or Sikafloor® Level range should be used, applied at least 24 hours before laying the ceramic coating.

### MIXING

Mix a bag with the necessary, above mentioned, amount of water, using an electric blender with a suitable mixing spiral, at low speed, in a clean bucket, and obtain a smooth paste free of lumps. Use a blender at 500 rpm maximum; do not mix at faster rate because of mechanical strength decay of the cured product. After blending, leave the product curing for 5 minutes in the mixing container and then briefly stir the mix prior to application. The obtained mix results is very creamy, easily spreadable and thixotropic.

## APPLICATION

SikaCeram®-101 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 fresh glue, exerting an adequate pressure to ensure contact with the adhesive, and thus the perfect bonding. 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 already applied adhesive with water, as it may negatively affect its properties.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## 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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ISO 9001: Sika UAE LLC,  
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ISO 45001: Sika UAE LLC,  
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All products are supplied under  
a management system certified  
to conform to the requirements  
of the quality, environmental  
and occupational health &  
safety standards ISO 9001,  
ISO 14001 and ISO 45001.

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