

PRODUCT DATA SHEET

SikaCeram[®]-101

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



DESCRIPTION

SikaCeram[®]-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

Composition	Portland cement, selected aggregates and polymers
Packaging	25 kg and 40 kg bag
Appearance / Colour	Grey and white powder
Shelf life	12 months minimum from date of production
Storage conditions	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.
Maximum Grain Size	~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[®]-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[®]-101 follows the requirements of EN 12004 class C1 T.

TECHNICAL INFORMATION

Tensile Adhesion Strength	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 ²	≥ 0.5 N/mm ²	
	After water immersion	≥ 0.5 N/mm ²	≥ 0.5 N/mm ²	
	After heat ageing	≥ 0.5 N/mm ²	≥ 0.5 N/mm ²	
Slip Resistance	Value	Requirements	(EN 12004-2)	
	w/p=0.22	EN 12004-1, class T		
	≤ 0.5 mm	≤ 0.5 mm		

SYSTEMS

System Structure	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

Mixing Ratio	5.5 to 5.75 L of water per 25 kg bag, 8.8 to 9.2 L of water per 40 kg bag	
Consumption	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").	
	Required notch size:	Quantity of powder per m²
	4mm	~1.60 kg/m ²
	6mm	~2.18 kg/m ²
	8mm	~2.66 kg/m ²
	10mm	~3.33 kg/m ²
	Solid bed application	~1.38 kg/mm thickness
	Approximate coverage per 25kg bag:	
	Required notch size:	Approximate coverage:
	4mm	~15.60 m ²
	6mm	~11.50 m ²
	8mm	~9.40 m ²
	10mm	~7.50 m ²
This figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc..		
Layer Thickness	Min. 2 mm Max. 5 mm (locally up to 12 mm thickness possible, for leveling purpose)	
Ambient Air Temperature	+5 °C min. / +35 °C max.	
Substrate Temperature	+5 °C min. / +35 °C max.	
Pot Life	~3 h (23 °C)	
Open Time	~10 min. (23 °C)	(EN 12004-2)
Adjustability Time	~30 min. (23 °C)	
Applied Product Ready for Use	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

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.

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

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.

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 the exact product data and uses.

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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ISO 9001: Sika UAE LLC,
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Sika Saudi Arabia Co. Ltd,
Sika Qatar LLC
ISO 14001: Sika UAE LLC,
Sika Gulf B.S.C. (c),
Sika Saudi Arabia Co. Ltd
OHSAS: Sika UAE LLC,
Sika Gulf B.S.C. (c)

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 OHSAS
18001.

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