

PRODUCT DATA SHEET

SikaCeram[®]-50 Ceramic

Ceramic Tile Adhesive

DESCRIPTION

SikaCeram[®]-50 Ceramic is one-pack tile adhesive intended to lay absorbent tiles on absorbent substrate in residential use.

USES

Suitable for fixing:

SikaCeram[®]-50 Ceramic is suitable for bonding the following types of tiles:

- Absorbent ceramic tiles

SikaCeram[®]-50 Ceramic can be used on indoor walls and floors, and outdoor floors including:

- For residential environments
- For Commercial environments (foot traffic only)

CHARACTERISTICS / ADVANTAGES

- Easy to use
- Excellent workability
- Excellent potlife
- Can be applied directly on cement screeds or concrete
- Non Toxic
- Suitable for indoor and outdoor applications

PRODUCT INFORMATION

Chemical Base	Portland cement and selected aggregates	
Packaging	20 kg bag	
Appearance / Colour	Grey powder	
Shelf Life	12 months from date of production	
Storage Conditions	Undamaged original sealed packaging, in dry cool conditions	
Density	~1.62 g/cm ³ (fresh mortar)	
Maximum Grain Size	Dmax:0.5mm	
Tensile Adhesion Strength	Initial	≥ 0.5MPa (EN1348)
	Water Immersion	≥ 0.5MPa
	Heat ageing	≥ 0.5MPa
Mixing Ratio	~4.8 litres of water (24 % ± 1 %) per 20 kg bag	

Consumption

Consumption is always depending on the substrate surface profile and roughness, as well as on the application technique (single spreading/float-ing method or double spreading/buttering method). As a guide:

Size of Tiles	Notched Trowel Size	Consumption
Small	6mm	~2.5kg/m ²
Medium	8mm	~3.0kg/m ²
Large	10mm	~4.0kg/m ²

Layer Thickness	10mm max.								
Ambient Air Temperature	+5 °C min. / +35 °C max.								
Substrate Temperature	+5 °C min. / +35 °C max.								
Maturing time	~3 min								
Pot Life	~ 2 hrs								
Open Time	≥ 0.5 N/mm ² after 20 min								
Curing Time	24-36 hours								
Curing Treatment	Protect from adverse weather conditions, such as extremely high or freez-ing temperatures, rain, direct exposure to sun, for at least 12–24 hours from application.								
Applied Product Ready for Use	<table><thead><tr><th>Use</th><th>Waiting time</th></tr></thead><tbody><tr><td>Grouting floors / walls</td><td>24-36 hours</td></tr><tr><td>Grouting walls</td><td>4-6 hours</td></tr><tr><td>Full traffic</td><td>~14 days</td></tr></tbody></table>	Use	Waiting time	Grouting floors / walls	24-36 hours	Grouting walls	4-6 hours	Full traffic	~14 days
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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.

LIMITATIONS

- Gypsum plaster substrates must have a maximum moisture content of 0.5 %.
 - If waterproofing layer under tiles is required, ce-ment-based and acrylic-based are allowed. Refer to the related Sika product data sheet for specific in-formation.
 - Always apply on a test area first prior to carry out any work with natural stones tiles.
- SikaCeram®-50 Ceramic shall not be applied on the fol-lowing cases:
- On metal surfaces and wood.
 - For all cases not explicitly described.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, stor-age and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) con-taining physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Substrates must be properly cured, structurally sound, clean, dry and free of all contaminants such as dust, dirt, oil, grease, cement laitance, efflores-cence, previous coatings and other surface treat-ments.
- Depending on the contaminants to remove, perform adequate preparation techniques, such as water-jet washing or sandblasting, in order to remove all traces of previous coatings which could reduce the product's adhesion on the substrate.
- Any small gradients or bumps or gravel can be lev-elled and filled with a layer of SikaCeram®-50 Ceram-ic, in maximum thickness of 10 mm, applied at least 24 h before laying the ceramic tiles. For higher thick-ness, mortars of Sika MonoTop® or Sikafloor® Level range shall be used. Cracked substrates must be sealed with epoxy resins.
- For applications in hot climate on absorbent sub-strates, adequately dampen the surface prior product use. However, avoid stagnant water on the surface, which shall not be moist to touch and not be dark-mat (wet surface appearance: saturated, with surface dry).

MIXING

Pour the recommended water in a suitable, clean mixing container. While stirring slowly, add the powder to the water and mix thoroughly using a low speed (~500 rpm) electric mixer until a homogeneous and lump free mix is achieved.

After blending, leave the product maturing and then briefly stir it prior the application. The obtained mix has a very creamy consistency and is easily spreadable.

APPLICATION

- SikaCeram®-50 Ceramic is applied using a notched trowel.
- Apply a sufficient amount of product to ensure complete wetting of the tiles' rear.
- Tiling has to be carried out on fresh adhesive, 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, remove the adhesive layer with the flat part of the spatula and apply a fresh layer of adhesive.
- Avoid application under direct sun exposure and/or strong wind.

CLEANING OF TOOLS

Thoroughly clean all tools and equipment with water before the product has set, preferably immediately after use. Once hardened it can only be removed by mechanical means.

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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