

PRODUCT DATA SHEET

SikaCeram[®]-100 Basic

POWDER TILE ADHESIVE TO LAY CERAMIC TILES.



DESCRIPTION

USES

SikaCeram[®]-100 Basic is suitable for bonding the following types of tiles:

- Absorbent ceramic tiles
- SikaCeram[®]-100 Basic can be used on indoor walls and floors, and outdoor floors including:
 - For residential use
 - On spot-gluing insulating panels made of polystyrene, polyurethane foam, rock or glass wool

SikaCeram[®]-100 Basic mixed with SikaCeram[®] T Latex (7-7.25 L /bag) is used for:

Bonding the following types of tiles:

- All kind of ceramic tiles, even grès porcelain in large size and in thin slabs

On the following surfaces:

- Gypsum- or cement- based substrates
- Old ceramic tiles, stones or paint
- PVC, linoleum, old vinyl floors

For applications high performances demanding, such as:

- Swimming pools
- Heating floors, water and electric systems
- Industrial and heavy traffic floors
- Facades

CHARACTERISTICS / ADVANTAGES

- One-pack
- Frost proof

SUSTAINABILITY

VOC emission classification according to French classification A+.

APPROVALS / CERTIFICATES

Normal setting cementitious adhesive C1 classified according to EN 12004:2007. Declaration of Performance 30817317, assessed notified laboratory 1599, and provided with the CE marking.

PRODUCT INFORMATION

Composition	Portland cement, selected aggregates, water retention additives, re-dispersible polymer
Packaging	25 kg bag
Appearance / Colour	Grey powder
Shelf life	12 months from date of production
Storage conditions	Undamaged original sealed packaging, in dry cooled conditions

Density	~1.5 kg/l (fresh mortar)	
Maximum Grain Size	D _{max} : 0.5 mm	
Product Declaration	C1	(EN12004)

TECHNICAL INFORMATION

Tensile Adhesion Strength	Initial	≥ 0.5 N/mm ²	(EN1348)
	Water immersion	≥ 0.5 N/mm ²	
	Heat ageing	≥ 0.5 N/mm ²	
	Freeze-Thaw cycles	≥ 0.5 N/mm ²	

All data are collected from test reports released by laboratory Modena Centro Prove, Notified Body no. 1599

Chemical Resistance

SYSTEMS

System Structure

For the following substrates, a primer shall be used:

Substrate	Primer
Gypsum plaster or anhydrite screed	Sika® Primer-11W
PVC, linoleum and old vinyl floors	Sika® Primer-21W

Application and consumption details of the primer are given in the relevant Product Data Sheet.

APPLICATION INFORMATION

Mixing Ratio	~6.6 litres of water (26.5 % ± 1 %) per 25 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	6 mm	~2.5 kg/m ²
	Medium	8 mm	~3 Kg/m ²
Large	10 mm	~4 Kg/m ²	
Layer Thickness	10 mm max.		
Ambient Air Temperature	+5 °C min. / +35 °C max.		
Substrate Temperature	+5 °C min. / +35 °C max.		
Maturing Time	~3 min		
Pot Life	~6 hours		
Open Time	≥ 0.5 N/mm ² after 20 min		(EN 1346)
Adjustability Time	~45 min		
Curing Time	24–36 hours		
Curing Treatment	Protect from adverse weather conditions, such as extremely high or freezing temperatures, rain, direct exposure to sun, for at least 12–24 hours from application.		
Applied Product Ready for Use	Use	Waiting time	
	Grouting floors / walkable	24–36 hours	
	Grouting walls	4–6 hours	
	Full traffic	~14 days	
	Water filling (mixed with latex)	~21 days	

Values determined at laboratory conditions: 23 °C ± 2 °C, R.H. 50 % ± 5 %. Higher temperatures will reduce the indicated waiting times, lower temperatures increase them.

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, efflorescence, previous coatings and other surface treatments.
- 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 levelled and filled with a layer of SikaCeram®-100 Basic, in maximum thickness of 10 mm, applied at least 24 h before laying the ceramic coating. For higher thickness, 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 substrates, 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®-100 Basic 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 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, 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.
- Preferred use of SikaCeram®-100 Basic is for laying absorbent tiles with a size of up to 900 cm² (e.g. 30×30 cm).
- SikaCeram®-100 Basic mixed with SikaCeram® T Latex can be used for laying absorbent and non-absorbent tiles indoor without any size or support limits. Preferred use outdoors is for laying non-absorbent tiles not larger than 10 000 cm² (e.g. 100×100 cm) for floors, and 7000 cm² (e.g. 80×80 cm) for walls without support of mechanical fixing. These limits are valid for cementitious, non-heating substrates.
- For laying tiles larger than 900 cm² (e.g. 30×30 cm), the double-spreading (buttering) method of application is always recommended.

CLEANING OF EQUIPMENT

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.

IMPORTANT CONSIDERATIONS

- Gypsum plaster substrates must have a maximum moisture content of 0.5 %.
 - If waterproofing layer under tiles is required, cement-based and acrylic-based are allowed. Refer to the related Sika product data sheet for specific information.
 - Always apply on a test area first prior to carry out any work with natural stones tiles.
- SikaCeram®-100 Basic shall not be applied on the following cases:*
- On metal surfaces and wood.
 - For all cases not explicitly described.

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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