

PRODUCT DATA SHEET

SikaCeram[®]-50

Cementitious adhesive for laying ceramic tiles for indoor use.

DESCRIPTION

SikaCeram[®]-50 is a cementitious adhesive formulated with cement, selected aggregates, synthetic resins and additives that improve workability, water retention and adhesion.

USES

It is a product suitable for bonding thin-film ceramic pieces. It is used with high absorption ceramic pieces. For low-absorption ones, the other products from the Sika Ceram[®] range must be used.

SikaCeram[®]-50 can be used on the following supports:

- Concrete and mortar.

- On concrete and mortar substrates, which are not waterproof, and more than 28 days old. For other types of substrates (non-absorbent surfaces, old coatings, polished or very porous concrete, etc.), other products from the SikaCeram[®] range must be used.

SikaCeram[®]-50 can be used in the following cases: Interior walls and floors.

CHARACTERISTICS / ADVANTAGES

- Ease of operation
- Excellent adhesion on cementitious mortars and concrete
- Excellent degree of water retention.

APPROVALS / STANDARDS

Cementitious adhesive for laying ceramic tiles in interiors according to CE 12004:2007.

PRODUCT INFORMATION

Chemical Base	Polymer-modified cementitious mortar
Packaging	25 kg bags with handle
Shelf Life	12 months from the date of manufacture if stored correctly in the original undamaged, closed and sealed container in a cool, dry place.
Storage Conditions	It shall be stored correctly in the original undamaged, closed and sealed container in a cool, dry place.
Appearance / Colour	Grey and white powder
Density	Density of fresh mortar: ~ 1.4 to 1.7 kg/l (at +20° C)

TECHNICAL INFORMATION

Tensile Adhesion Strength

Initial adhesion	≥ 0,5 N/mm ²
Immersion in water	≥ 0,5 N/mm ²
Heat aging	≥ 0,5 N/mm ²
Ciclos de hielo/deshielo	≥ 0,5 N/mm ²

APPLICATION INFORMATION

Consumption	It depends on the flatness and roughness of the substrate, the size of the platelets and the bonding technique (single or double bonding). As a guide in kilos of powder per m ² Trowel : 6x6 mm -10x10 mm - Ø15 mm Consumption: 3 Kg/m ² - 5.4 Kg/m ² - 8 Kg/m ²
Yield	Grey: ≈ 6 l water per 25 kg bag White: ≈ 6 l water per 25 kg bag
Layer Thickness	3 mm min. / 7 mm max.
Ambient Air Temperature	5°C min. / +35°C max.
Substrate Temperature	5°C min. / +35°C max.
Pot Life	≈ 20 minutes (at +20° C)
Adjustability Time	≈ 30 minutes (at +20° C)
Applied Product Ready for Use	(At +20° C and 50% Relative Humidity) Time for grouting Min. 24 hours Pedestrian traffic time Min. 24 hours Open to all types of traffic Min. 7 days

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

- Cementitious substrates must be at least 28 days old.
- Do not exceed recommended water dosage. Apply only on substrates healthy and prepared. Do not exceed maximum layer thickness.
- Do not apply directly on plaster substrates as it is necessary to use primer beforehand.
- Protect the applied material, even if fresh, from rain and frost.
- Depending on the climatic conditions, the drying times of the product can be extended.
- It is not necessary to wet the ceramic pieces.
- Before laying the tiles, check that the adhesive mortar has not formed a surface film that prevents good adhesion.
- Do not apply on floors with underfloor heating.

ECOLOGY, HEALTH AND SAFETY

For any information regarding safety issues in the use, handling, storage and disposal of chemical products, users should refer to the latest version of the Data Sheet Product Safety containing physical, ecological, toxicological data and other security issues.

APPLICATION INSTRUCTIONS

EQUIPMENT

SikaCeram®-50 should be mixed mechanically using a mixer or in a clean container using a drill and mixing paddle (<500 rpm). Do not use a concrete mixer.

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be structurally sound, grout free, clean and free of oil, grease, dirt, loose particles and other contaminants.

Weak concrete and/or surface grout must be removed.

It must be repaired from the support, filling in the irregularities and the cokes. using the appropriate products from the SikaTop, Sika® and Sika® material ranges MonoTop or Sika® Rep or with an in-situ mortar improved with Sika® Latex. To leave It takes between 24 and 48 hours to lay the ceramic pieces.

Completely remove all dust and loose particles from the substrate before the application of the product, preferably by brushing and/or vacuuming.

Deviations in the flatness of the support should be less than 5 mm, measured with a 2 m long ruler.

MIXING

Mix thoroughly with clean water for at least 3 minutes.

Let the material rest in the container until most of the

bubbles have disappeared (minimum 5 minutes). Then remix the material for 15 seconds - the product is now ready for use.

APPLICATION

SikaCeram®-50 is applied using the notched trowel on the support. Choose one trowel that leaves the proper thickness on the back of the tile.

For guidance:

- For mosaics up to 5x5cm, use a 3 mm notched trowel.
- For normal ceramic pieces, use a 6 mm notched trowel.
- For large ceramic pieces, use a 9 mm notched trowel.
- For ceramic parts larger than 900 cm² or for stringent requirements (tiles to be polished, heavy loads, etc.), the double gluing technique.

On small surfaces, apply a uniform coat of the recommended thickness of SikaCeram®-50 evenly. Then, immediately adjust the thickness using the notched trowel. Finally, place the ceramic piece by pressing and the mortar.

The tile surface in contact with the mortar shall be more than 80%. The Tiles larger than 900 cm² and those with the shape of dovetail must be to be fixed with double gluing.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Once the material has hardened/cured, it can only be removed mechanically.

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 recom-

mendations, 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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