

PRODUCT DATA SHEET

SikaCeram[®]-50

GENERAL PURPOSE, CEMENTITIOUS TILE ADHESIVE.

DESCRIPTION

SikaCeram[®]-50 is a cementitious tile adhesive used for permanent fixing of tiles. Suitable for tropical and hot climatic conditions.

USES

Suitable for fixing:

- Floor tiles.
- Absorbing / non-absorbed tiles.
- Interior use only.

CHARACTERISTICS / ADVANTAGES

- Easy to use, just add water.
- Excellent workability.
- Excellent pot life.
- Can be applied directly on cement screeds, concrete or lime mortars.
- Non Toxic.
- Suitable for indoor application.

APPROVALS / CERTIFICATES

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

PRODUCT INFORMATION

| | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Composition | Cementitious powder, Polymer modified binder. |
| Packaging | 25 kg bag |
| Appearance / Colour | Grey powder |
| Shelf life | 12 months minimum from production date. |
| Storage conditions | The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 5°C and 35°C. Protect from direct sunlight. |

TECHNICAL INFORMATION

Tensile adhesion strength

| | |
|-------------------------------------------------|-------------------------|
| Initial tensile adhesion strength | ≥ 0,5 N/mm ² |
| Tensile adhesion strength after water immersion | ≥ 0,5 N/mm ² |
| Open time: tensile adhesion strength | ≥ 0,5 N/mm ² |

APPLICATION INFORMATION

| | |
|-------------------------|-----------------------------------------------------|
| Mixing ratio | 18-20% or 4.5 to 5.0 litre clean water per 25kg bag |
| Ambient air temperature | Minimum 5°C min, Maximum 30°C (Substrate). |
| Pot Life | Approximately 60 minutes at 30°C. |
| Open Time | Approximately 20 minutes at 20°C. |

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete, mortar and masonry surfaces must be clean, free from grease, oil and loosely adhering particles. Suitable mechanical methods such as abrasive blast cleaning; high pressure water jetting at sufficient pressure (minimum 150bar) and volume; scabbling or needle gunning. On "new" or smooth faced concrete, surfaces as should be Sand-blasted. All surfaces must be as true and flat as possible. Blow holes and irregularities should be filled with suitable SikaTop / Mono-top products. Saturate absorbent concrete surfaces thoroughly with water to achieve a surface saturated dry (SSD) condition.

MIXING

Add about 4.5 – 5.0 litres clean cold water to a clean suitable mixing container. Slowly add the SikaCeram® 50 powder and mix for at least 3 minutes until a homogeneous mix, free of lumps is achieved. Do not mix more SikaCeram® 50 than can be used within the open time.

Do not add extra water or other ingredients after mixing!

APPLICATION

Apply SikaCeram® 50 at 3 -10 mm thickness directly to the concrete substrate, using a notched trowel and spread the mortar evenly over the area to be tiled. Cover only an area that can be tiled within 15 - 20 minutes.

Press tiles firmly into SikaCeram® 50 with a twisting action to ensure optimum adhesion.

1. Use 4.5 - 5.0 litres of clean water per 25kg bag.
2. Mix well with a slow speed drill (maximum 500rpm).
3. Apply with "V"-notched trowels for small tiles.
4. Apply with square notched trowel for bigger tiles.
5. Place the tiles firmly into the fresh adhesive.

CLEANING OF EQUIPMENT

Application and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically.

IMPORTANT CONSIDERATIONS

- 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.

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 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.

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August 2020, Version 01.02

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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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SikaCeram®-50
August 2020, Version 01.02
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SikaCeram-50-en-NG-(08-2020)-1-2.pdf

