

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

- Suitable for bonding high absorption ceramic tiles
- Suitable for interior floor and wall applications
- Indoor applications over concrete, cement mortars, bricks (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.

FEATURES

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

PRODUCT INFORMATION

| | |
|-----------------------|---|
| Composition | Polymer-modified cementitious mortar |
| Packaging | 25 kg bags |
| 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 and colour | Grey powder |

TECHNICAL INFORMATION

Tensile adhesion strength

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|-------------------------|-------------------------|
| Initial adhesion | ≥ 0.3 N/mm ² |
| Immersion in water | ≥ 0.3 N/mm ² |
| Heat ageing | ≥ 0.3 N/mm ² |
| Freezing-thawing cycles | ≥ 0.3 N/mm ² |

APPLICATION INFORMATION

| | |
|-------------------------------|---|
| Mixing ratio | 22% - 24% (5.5kg - 6.0kg) of water for 25kg product |
| Fresh mortar density | ~ 1.4 to 1.7 kg/l (at +20° C) |
| Consumption | The consumption is 3 – 6 kg/m ² depending on <ul style="list-style-type: none">▪ The substrate (flatness, roughness)▪ The tiles type (size, thickness, water absorption, porosity)▪ Gluing method (simple or double) |
| Ambient air temperature | 5°C min. / +35°C max. |
| Substrate temperature | 5°C min. / +35°C max. |
| Pot Life | ~ 60 minutes at room temperature |
| Open Time | ~ 15 minutes at room temperature |
| 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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 tiles.
- 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 tiles, use a 6 mm notched trowel
- For large ceramic tiles, 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 tile by pressing on to 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 EQUIPMENT

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

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 exact product data and uses.

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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PRODUCT DATA SHEET

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