

Sikadur®-54 Ceramic

Emulsified, Mortar Tile Grout

Product Description **Sikadur®-54 Ceramic** is a solvent-free, 2-component pasty mortar, based on a water-emulsifiable epoxy resin and selected quartz fillers. Suitable for use in tropical and hot climatic conditions

Uses **Sikadur®-54 Ceramic** is used for rigid, waterproof and chemical resistant sealing of joints in ceramic wall and floor coverings, which are subjected to chemical and mechanical attack:

Chemical/acids:

- Laboratories.
- Food and beverage industries.
- Medical and therapeutic rooms.

Aggressive water:

- Swimming pools with thermal, mineral or salt water.
- Storage tanks.
- Sewage treatment plants.
- Stables.
- Toilet facilities.
- Steam and water-jet cleaning industrial washing facilities.

Advantages

- Easily workable consistency. Trowel and rubber rake application.
- Long pot-life even after application, sufficient time to wash off with warm water.
- Rapid final hardening.
- High mechanical strength.
- Good resistance to chemicals.
- Excellent adhesion to ceramic tiles without primer.

Product Data

Type Epoxy resin, curing agent and selected quartz aggregates

Form Mortar
Colours available: Beige 7043/OV; red oxide 7228/OV; light grey 7069/OV; approximately RAL 7037; approximately RAL 7010.

Packaging Pre-measured packs of 5 kg (1 kg A + 4 kg B).

Storage Condition Store in a dry area between 5°C and 35°C. Protect from direct sunlight.

Shelf life 9 months from production date if stored properly in original unopened packaging.



Technical Data

Mixing ratio	A : B = 1 kg : 4 kg.																																								
Density	Approximately 1.7 kg/lt																																								
Chemical Resistance	According to DIN 53168, continuous immersion for 4 weeks (hardening time: 14 days at 20°C): <table><tr><td>Acetic acid 5%</td><td>+</td><td>Lye 10% active chlorine</td><td>+</td></tr><tr><td>Ammonia 25%</td><td>+</td><td>Nitric acid 2%</td><td>+</td></tr><tr><td>Caustic soda 5%</td><td>+</td><td>Phenol 1%</td><td>+</td></tr><tr><td>Citric acid 10%</td><td>+</td><td>Phosphoric acid 10%</td><td>+</td></tr><tr><td>Ethanol 90%</td><td>o</td><td>Phosphoric acid 50%</td><td>+</td></tr><tr><td>Formaldehyde 20%</td><td>+</td><td>Animal fat with 3% cooking salt</td><td>+</td></tr><tr><td>Formic acid 5%</td><td>+</td><td>Sea water</td><td>+</td></tr><tr><td>Formic acid 10%</td><td>o</td><td>Tartaric acid 15%</td><td>+</td></tr><tr><td>Glycerine</td><td>+</td><td>Water, 40°C</td><td>+</td></tr><tr><td>Lactic acid 10%</td><td>+</td><td>Whey</td><td>+</td></tr></table> + Min. resistance 4 weeks. Discolouration and slight softening possible. o Resistance limited in time approximately 3 days.	Acetic acid 5%	+	Lye 10% active chlorine	+	Ammonia 25%	+	Nitric acid 2%	+	Caustic soda 5%	+	Phenol 1%	+	Citric acid 10%	+	Phosphoric acid 10%	+	Ethanol 90%	o	Phosphoric acid 50%	+	Formaldehyde 20%	+	Animal fat with 3% cooking salt	+	Formic acid 5%	+	Sea water	+	Formic acid 10%	o	Tartaric acid 15%	+	Glycerine	+	Water, 40°C	+	Lactic acid 10%	+	Whey	+
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Pot Life	90 minutes at 20°C.																																								
Available time for cleaning	1 hour at 20°C, with warm water and sponge.																																								
Mechanical strengths at 20°C, 65% rH	10 days Compressive strength ~ 50 N/mm ² Flexural strength ~ 30 N/mm ² Adhesive Tensile Strength (on Ceramic) ~ 20 N/mm ² (on Concrete depends on relevant concrete tensile strength (Concrete failure)																																								
Application Details																																									
Substrate preparation	Joints must be dry, sound and free from dust, grease, oil and loosely adhering particles. Any remaining tile adhesive must be removed.																																								
Mixing	Stir component A prior to batching. Add entire contents of component A to component B and mix for at least 3 minutes using a slow speed electric stirrer (maximum 400 r.p.m.) until a uniform colour is achieved.																																								
Application	Apply Sikadur®-54 Ceramic into the joints using a trowel, or pour Sikadur®-54 Ceramic onto the floor, raking it out in order to fill the joints and, smoothing it off provisionally. After half an hour and not later than one hour, remove the surplus material with warm water, using a wet sponge. In vertical joints, add 0.5% parts by weight of Sika Extender-T thixotropic agent to Sikadur®-54 Ceramic and stir thoroughly prior to use.																																								
Cleaning	As long as the product has not hardened, use Colma Cleaner for tools and warm water and soap for skin. Hardened material can only be removed mechanically.																																								
Remarks	Min. permissible application temperature (substrate and ambient): 5°C. Optimal product temperature: 20°C. The cementitious mortar used to bond the tiles must be fully cured before Sikadur®-54 Ceramic is applied to the joints.																																								
Notes	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.																																								

Safety

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet 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 should 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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