

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-209 Easy

Enhanced performance tile adhesive, based on SikaCeram<sup>®</sup> Easy technology



### DESCRIPTION

SikaCeram<sup>®</sup>-209 Easy is an enhanced performance, no vertical slip, one-pack, premixed, white coloured, cementitious adhesive with extended open time, containing selected aggregates, special admixtures and polymers. Its special creamy consistency, based on SikaCeram<sup>®</sup> Easy Technology, improves application comfort of the tile setter ensuring an effortless spreading.

### USES

SikaCeram<sup>®</sup>-209 Easy can be used in layers of up to 15 mm, for both external and internal applications, on horizontal and vertical surfaces, ensuring high performance and excellent workability for bonding the following types of ceramic tiles, such as:

- Monocottura, bicottura ceramic tiles
- Medium and large sized tiles
- Artificial granite tiles (including grès porcelanato tiles)
- Cotto tiles and mosaic tiles
- Marble and natural stones (without any sensitivity against water)

SikaCeram<sup>®</sup>-209 Easy can be used on several substrates including:

- Concrete and mortars
- Existing marble tiles, mosaic and ceramic tiles
- Bricks, Plasters
- Dry wall boards (with suitable primer)
- Non-absorbing substrates (with suitable primer)

SikaCeram<sup>®</sup>-209 Easy can be used in wall and floors in interior or exterior applications including:

- Balconies, terraces
- Wet room areas (kitchens, bathrooms, showers, e.t.c.)
- Areas with intense traffic

### FEATURES

- Creamy consistency and outstanding workability due to SikaCeram<sup>®</sup> Easy Technology
- Easiness of application, effortless spreading
- Very low VOC emissions, contributing to good indoor air quality
- Low CO<sub>2</sub> emissions, reduced carbon footprint
- Recycled raw materials, reduced energy consumption
- Excellent adhesion performance
- Extended open time
- Highly thixotropic, no vertical slip
- Applicable up to 15 mm

### SUSTAINABILITY

- VOC Emission Classification Gev Emicode EC1<sup>PLUS</sup>
- VOC Content: Meets SCAQMD Rule 1168
- Contributes towards satisfying Environmental Quality (EQ) Credit: Low Emitting Materials under LEED v4.1

### CERTIFICATES AND TEST REPORTS

CE Marking and Declaration of Performance according to EN 12004-1 - Adhesives for ceramic tiles

## PRODUCT INFORMATION

<b>Product declaration</b>	CE-marking and Declaration of Performance as Improved cementitious adhesive with no vertical slip and extended open time, C2TE according to EN 12004-1:2017, based on assessment by notified laboratory and factory production control
<b>Composition</b>	Portland cement, selected aggregates, special additives and polymers
<b>Packaging</b>	23 kg bag and 10 kg bag
<b>Shelf life</b>	12 months from date of production
<b>Storage conditions</b>	Store in original unopened, sealed and undamaged packaging in dry conditions, at temperatures between +5°C and +35°C
<b>Appearance and colour</b>	Powder, white
<b>Maximum grain size</b>	~ 0.5 mm
<b>Density</b>	Fresh mortar density: ~ 1.50 kg/l (at +23°C)
<b>Tensile adhesion strength</b>	$\geq 1.0$ N/mm <sup>2</sup> (Initial) (EN 12004-2) $\geq 1.0$ N/mm <sup>2</sup> (after Heat Ageing) $\geq 1.0$ N/mm <sup>2</sup> (after Water Immersion) $\geq 1.0$ N/mm <sup>2</sup> (after Freeze/Thaw cycles)
<b>Slip resistance</b>	$\leq 0.5$ mm (EN 12004-2)

## APPLICATION INFORMATION

<b>Mixing ratio</b>	6.10 – 6.80 L of water per 23 kg bag 2.65 – 2.95 L of water per 10 kg bag															
<b>Consumption</b>	Consumption is always dependent on substrate's surface profile and roughness by the size of the tiles as well as on the application technique (single adhesive layer or with an additional "buttering" layer on the back of the tiles). As a guide: <table><thead><tr><th>Tile size</th><th>Trowel size</th><th>Consumption</th></tr></thead><tbody><tr><td>Small size tiles and mosaic tiles</td><td>6 mm</td><td>~2-3 kg/m<sup>2</sup></td></tr><tr><td>Normal size tiles (20x20 cm - 45x45 cm)</td><td>8 mm</td><td>~3-4 kg/m<sup>2</sup></td></tr><tr><td>Medium and large size tiles</td><td>10 mm</td><td>~4-5 kg/m<sup>2</sup></td></tr><tr><td>Highly rough substrate / double spreading technique</td><td>12-15 mm</td><td>~5-7 kg/m<sup>2</sup></td></tr></tbody></table>	Tile size	Trowel size	Consumption	Small size tiles and mosaic tiles	6 mm	~2-3 kg/m <sup>2</sup>	Normal size tiles (20x20 cm - 45x45 cm)	8 mm	~3-4 kg/m <sup>2</sup>	Medium and large size tiles	10 mm	~4-5 kg/m <sup>2</sup>	Highly rough substrate / double spreading technique	12-15 mm	~5-7 kg/m <sup>2</sup>
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<b>Layer thickness</b>	max. 15 mm															
<b>Ambient air temperature</b>	+5 °C min. / +35 °C max.															
<b>Substrate temperature</b>	+5 °C min. / +35 °C max.															
<b>Pot Life</b>	~3-4 hours at +23 °C															
<b>Open Time</b>	$\geq 30$ minutes (tensile adhesion strength $\geq 0.5$ N/mm <sup>2</sup> ) (EN 12004-2)															
<b>Adjustability time</b>	~30 min. at +23 °C															

## Applied product ready for use

Before grouting on floor – light foot traffic 24\* hours

Before grouting on wall 5-12\* hours

Full traffic ~14\* days

\* Values got at laboratory conditions: 23 °C ± 2 °C – R.H. 50 % ± 5 %. Higher temperatures reduce the indicated lapse time, oppositely, lower temperature increase them.

## 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.

## IMPORTANT CONSIDERATIONS

- Gypsum based substrates must have a minimum thickness of 10 mm and a maximum moisture content of 0.5 %.
- If additional waterproofing underneath the tiles is required, then the following products can be used: Sikalastic®-152 HP, Sikalastic®-1K HP, Sikalastic®-260 Stop Aqua, Sika® SealTape-S & Sika® SealTape F.
- In case of marble application, it is always essential to carry out a sample test of the material, since marbles and natural stones characteristics vary.
- Do not exceed the recommended water dosage. Apply only to sound, suitably prepared substrates. Do not exceed the maximum layer thicknesses.
- Protect freshly applied material from freezing conditions and rain, wind, etc. for at least 24 hrs.
- Pre-dampening of tiles is not required.

Please refer to the relevant product data sheet or contact our Sika Technical Services.

## 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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

In normal conditions, no primer is required when the product is applied on cementitious substrates, plaster, concrete, existing tiles, mosaic, marbles. In case of highly absorbent substrates, the following primers can be used:

<u>Substrate</u>	<u>Primer</u>
Absorbent substrates (Gypsum / cement boards, cementitious screed, plaster or anhydrite screed, e.t.c.)	Sika® Primer-11 W+ Sikafloor®-01 Primer
Pore sealing / adhesion promoter on non-porous substrates (e.g. old tiles)	SikaTop®-10 Sikafloor®-02 Primer

In any other substrates, please consult Sika Technical Services. For further information please refer to the

respective product data sheet of the primer used. The substrate must be cement laitance free, clean and free from dirt, oil, grease or other contaminants and loose or friable particles.

The substrate must be perfectly flat, sound and correctly aged. Any small gradients or bumps can be levelled and filled with a layer of SikaCeram®-209 Easy, applied at least 24 h before the laying process. For higher thickness, repair mortars from Sika MonoTop® or SikaRep® range, are to be used. In case of demands for levelling the substrate, self-leveling mortars from the Sikafloor® Level range can be used.

### MIXING

Mix the product with the necessary, above mentioned amount of water, using an electric mixer with a suitable mixing spiral at low speed in a clean bucket and until obtaining a smooth, lump-free paste. After mixing, leave the product to stand for 5 min and then briefly stir it again prior to application. The obtained mix has a very creamy consistency and is easy to apply and spread.

### APPLICATION

SikaCeram®-209 Easy is applied using notched trowel. The amount of product should be enough to ensure complete wetting of the tiles' rear. Tiling has to be carried out on the fresh adhesive, exerting adequate pressure to ensure full contact with the adhesive, and thus the perfect bonding. In case a surface film is formed on the adhesive layer, as this can impair the bonding process.

In highly demanding applications (e.g. large sized tiles), complete wetting of the back of the tile should be ensured. In that case, the double-spreading (float-ing and buttering) technique is always recommended.

### CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be mechanically removed.

## 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 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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