

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-205

## High Performance Cementitious Flexible Tile Adhesive

### DESCRIPTION

SikaCeram<sup>®</sup>-205 is a cementitious tile adhesive used for permanent fixing of tiles. Suitable for tropical and hot climatic conditions. Performances according to European C2TE class.

### USES

Suitable for fixing:

- Wall and floor tiles.
- Absorbing / non-Absorbed tiles.
- Interior and exterior uses.

### FEATURES

- 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 and outdoor application.

### CERTIFICATES AND TEST REPORTS

Performance according to European EN12004 classification: C2TE class

### PRODUCT INFORMATION

Composition	Cementitious powder, Polymer modified binder.
Packaging	25 kg bag
Shelf life	12 months minimum from production date if stored properly in original unopened, sealed and undamaged packaging.
Storage conditions	Store in a dry area between 5°C and 35 °C. Protect from direct sunlight.
Appearance and colour	Grey powder

### TECHNICAL INFORMATION

Tensile adhesion strength	≥ 1.0 MPa
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### APPLICATION INFORMATION

Mixing ratio	29% - 31% (7.25kg - 7.75kg) of water for 25kg product
Consumption	The consumption is 3 – 6 kg/m <sup>2</sup> depending on <ul style="list-style-type: none"><li>▪ The substrate (flatness, roughness)</li><li>▪ The tiles type (size, thickness, water absorption, porosity)</li><li>▪ Gluing method (simple or double)</li></ul>
Substrate temperature	Minimum 5°C, Maximum 35°C

<b>Pot Life</b>	~ 2 hours at room temperature
<b>Open Time</b>	~ 30 minutes at room temperature
<b>Applied product ready for use</b>	Floor tiles: 24 -36 hours approx. Walls tiles: 4 - 6 hours approx. Surface can be use after 14 days approx.

## 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

- Gypsum plaster and anhydrite screed substrates must have a maximum moisture content of 0.5%. Contact our Technical Service Department for further advice.
- Avoid application in direct sunlight and/or strong wind.
- Do not apply on metal or wood surfaces.
- Do not apply on existing exterior ceramic tiles.
- Do not add anything to the product that is not specified in this Product Data Sheet.
- Do not use for any applications that are not explicitly described in this Product Data Sheet.
- If a waterproofing layer is required under the tiles, cement-based and acrylic-based products are suitable for use under SikaCeram®-205

## 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

- Substrates must be properly cured, structurally sound, free of any loose or friable particles, clean, dry and free of any contaminants such as dust, dirt, oil, grease, cement laitance or efflorescence.
- Depending on the substrate condition and contaminants to be removed from the surface, perform adequate preparation techniques, such as waterjet washing or blast cleaning, in order to remove all traces of any materials that could reduce the product's adhesion to the substrate.
- Any small surface defects and variations in level, profile, or around exposed aggregates for example, can be prefilled and levelled with an additional layer of SikaCeram®-205, to a maximum thickness of 10 mm, applied at least 24 h before laying the ceramic tiling is laid. For larger and thicker areas of surface profiling and making good, appropriate mortars from the Sika® MonoTop® or Sikafloor® Level range should be used. Cracks in substrates must be identified and sealed appropriately e.g. with Sikadur epoxy resins.

- When laying tiles on non-absorbent or substrates with limited absorbency, such as existing ceramic tiles, painted surfaces etc., check to confirm that these surfaces are all firmly and securely bonded and stable, then use suitable degreasing/descaling products to thoroughly and completely clean the surface.
- For applications in hot climates/environments and/or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product application, but avoid any ponding/standing water on the surface, which must not be damp to touch and not with a dark matt/wet surface appearance i.e. it must be saturated surface dry (SSD).
- For tiling in frequently damp or wet rooms, then a suitable Sika® waterproofing product/system should be applied before the tiling.

### MIXING

Add about 7.25 – 7.75 litres clean cold water to a clean suitable mixing container.

Slowly add the SikaCeram®-205 powder and mix for at least 3 minutes until a homogeneous mix, free of lumps is achieved. Do not mix more SikaCeram®-205 than can be used within the open time.

Do not add extra water or other ingredients after mixing!

### APPLICATION

Apply SikaCeram®-205 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 20 – 30 minutes. Press tiles firmly into SikaCeram®-205 with a twisting action to ensure optimum adhesion.

1. Use 7.25 - 7.75 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.

## 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.

### PRODUCT DATA SHEET

SikaCeram®-205

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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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