

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-205 PK

High Performance, Cementitious Tile Adhesive

## DESCRIPTION

SikaCeram<sup>®</sup>-205 PK is a high performance flexible cementitious adhesive mortar, ready to use with the addition of water, for bonding ceramic tiles using thin bed techniques.

## USES

SikaCeram<sup>®</sup>-205 PK has following uses:

- Laying all kind of ceramic tiles, even grès porcelain in large size
- Laying marbles and natural stone, provided not sensitive to water
- Indoor walls and floors, outdoor floors
- Laying on water-based heating floors
- Indoor over-tiling application on old tiles
- Suitable for applications high performances demanding, such as: swimming pools, industrial and heavy traffic floors.
- Spot-gluing insulating panels made of polystyrene, polyurethane foam, rock or glass wool

## CHARACTERISTICS / ADVANTAGES

SikaCeram<sup>®</sup>-205 PK provides the following properties:

- CE Classified C2TE
- Extended open time - Class E
- Very good adhesion to most common substrates (concrete, cementitious mortar, stone, bricks, existing tiles etc.)
- Excellent adhesion to plaster/anhydrite screeds when primed with Sika<sup>®</sup> Primer 10

## PRODUCT INFORMATION

<b>Chemical Base</b>	Cementitious mortar modified with polymers.
<b>Packaging</b>	25 kg bag
<b>Shelf Life</b>	6 Months from date of production if stored properly in undamaged, unopened, original sealed packaging in dry and cool conditions.
<b>Storage Conditions</b>	Store in a dry, undamaged, unopened, original sealed bags, protected from direct sunlight and frost, at temperature between +5 °C and 35 °C.
<b>Appearance / Colour</b>	Grey powder

<b>Tensile Adhesion Strength</b>	Initial	≥ 1.0 N/mm <sup>2</sup>
	After water immersion	> 1.0 N/mm <sup>2</sup>
<b>Skid / Slip Resistance</b>	~ 0.5 mm	

## SYSTEM INFORMATION

<b>System Structure</b>	<p>In normal conditions, no primer is required. However, for the following difficult substrates primer is recommended:</p> <p>Substrate: Very high absorption (Gypsum Plaster / Anhydrite Screed)</p> <p>Primer: Sika® Primer 10</p> <p>Application and consumption details etc. of primers are given in the relevant Product Data Sheet.</p>													
<b>Mixing Ratio</b>	6.75-7.25 L of water per 25 kg bag.													
<b>Fresh mortar density</b>	~ 1.9 kg/l (at +20°C)													
<b>Consumption</b>	<p>This depends on the level, profile and surface roughness of the substrate, the size of the tiles and the technique of placing (simple placing or "back"-buttering).</p> <p>As a guide, in kilos of powder per m<sup>2</sup>:</p> <table border="1"> <thead> <tr> <th>Types of tiles</th> <th>Trowel sizes</th> <th>Consumption</th> </tr> </thead> <tbody> <tr> <td>Small tiles</td> <td>6 mm</td> <td>~ 2 - 3 kg/m<sup>2</sup></td> </tr> <tr> <td>Normal size tiles (20*20 cm – 40*40 cm)</td> <td>8 mm</td> <td>~ 3 - 4 kg/m<sup>2</sup></td> </tr> <tr> <td>Large tiles and double spreading</td> <td>10 mm</td> <td>~ 4 - 7 kg/m<sup>2</sup></td> </tr> </tbody> </table>		Types of tiles	Trowel sizes	Consumption	Small tiles	6 mm	~ 2 - 3 kg/m <sup>2</sup>	Normal size tiles (20*20 cm – 40*40 cm)	8 mm	~ 3 - 4 kg/m <sup>2</sup>	Large tiles and double spreading	10 mm	~ 4 - 7 kg/m <sup>2</sup>
Types of tiles	Trowel sizes	Consumption												
Small tiles	6 mm	~ 2 - 3 kg/m <sup>2</sup>												
Normal size tiles (20*20 cm – 40*40 cm)	8 mm	~ 3 - 4 kg/m <sup>2</sup>												
Large tiles and double spreading	10 mm	~ 4 - 7 kg/m <sup>2</sup>												
<b>Pot Life</b>	~ 4 hours (at +20°C)													
<b>Open Time</b>	25 minutes													

## 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.

## LIMITATIONS

Cementitious substrates must be at least 28 days old.

Do not exceed the recommended water dosage. Apply only to sound, prepared substrate. Do not exceed the maximum layer thickness.

Plaster substrates must have a minimum thickness of 10 mm and a maximum moisture content of 5%.

Protect freshly applied material from freezing and rain etc. It is not necessary to pre dampen the tiles.

## 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

The substrate must be structurally sound, laitance free, clean and free from dirt, oil, grease or other contaminants and loose or friable particles.

### SUBSTRATE PREPARATION

Weak concrete and/or surface laitance must be removed.

Small blowholes or irregularity can be repaired using SikaCeram®-205 PK. However, large repairs to the substrate, filling of blowholes/voids must be carried out using appropriate products from the SikaTop®, Sika® MonoTop or Sika® Rep range of materials or site produced mortar improved with Sika® Latex. Allow a waiting time of 24 to 48 hours before placing the tiles.

All dust, loose and friable material must be completely removed from all surfaces before applica-

tion of the product, preferably by brush and/or vacuum.

If the substrate is very porous if the temperature is high, and/or the relative humidity low, it is advisable to pre dampen the surface - do not leave any standing water.

Variations in the level must be less than 5 mm, measured with a 2-meter straight edge. If necessary, the substrate must be levelled prior to application. If the level is not good enough, the substrate must be levelled with a mortar made with Sika® Latex, Sika® MonoTop or Sika® Rep type of product.

- In refurbishment work, on existing ceramic tiles:
- Check the ceramic tiles to ensure soundness
- Remove any tiles that are not adhering properly and re-bond them
- Grind off glazed tiles and remove dust
- Wash other types of tiles with suitable detergent and rinse well with clean water. If after this washing operation, they remain greasy, repeat, then grind and remove dust etc.

### MIXING

#### Mixing Time

Mix 25 kg bag with the necessary, above mentioned, amount of water, using an electric blender with a suitable mixing spiral at low speed, in a clean bucket, and up to obtain a smooth paste free of lumps.

Leave material to stand in container (for a minimum 5 minutes). Then remix the material for 15 seconds - the product is now ready for use.

#### Mixing Tools

SikaCeram®-205 PK must be mechanically mixed using a forced action mixer or in a clean container using a drill and mixing paddle (< 500 rpm). A normal concrete (free fall) mixer is not suitable.

### APPLICATION METHOD / TOOLS

SikaCeram®-205 PK is applied using a notched trowel onto the substrate. Select the trowel that will give the right coverage to the back of the tile. For tile larger than 300 x 300 or for stringent requirements (tiles to be polished, heavy loads, etc.), the 'back-buttering' technique for bedding must be used

Apply a uniform layer of SikaCeram®-205 PK by trowel in small areas. Immediately, adjust the thickness using the notched trowel. Finally, place the ceramic tile, pressing it firmly onto the mortar.

### CURING TREATMENT

Applied product ready for use At +20°C

Before joining work	Min. 24 hours
Before opening to light foot traffic	Min. 24 hours
Before opening to full traffic	Min. 24 hours

### CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

### 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. It may be necessary to ad-

#### PRODUCT DATA SHEET

SikaCeram®-205 PK

October 2023, Version 01.02

02171010200000816

apt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

**Sika Pakistan (Pvt.) Limited**

141-CCA Phase IV, DHA  
Lahore Punjab 54792  
Pakistan  
phone: +92 42 3569 4266 - 67  
fax: +92 42 3569 4268  
<http://pak.sika.com/>

**PRODUCT DATA SHEET**

SikaCeram®-205 PK  
October 2023, Version 01.02  
02171010200000816

