

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-200 Porcelain

### Porcelain Tile Adhesive

#### DESCRIPTION

SikaCeram<sup>®</sup>-200 Porcelain is a polymer modified, cement based, improved adhesive for Ceramic and Porcelain tiles. It can be used in layers up to 10mm thick and is suitable for all kind of tiles for inside and outside application for residential and medium load areas. SikaCeram<sup>®</sup>-200 Porcelain is C2 T classified according to EN 12004.

#### USES

SikaCeram<sup>®</sup>-200 Porcelain is suitable for bonding the following types of tiles:

- Absorbent ceramic tiles
- Non-absorbent Porcelain Tiles

SikaCeram<sup>®</sup>-200 Porcelain can be used on indoor walls and floors, and outdoor floors including:

- For residential use
- Commercial use
- Gypsum and cement based substrates

#### CHARACTERISTICS / ADVANTAGES

- No vertical slip, high slump resistance and grab
- Extended open time
- Suitable for all types of Ceramic and Porcelain tiles

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Polymer modified, Portland cement based, with selected aggregate, water retainers and other special additives
<b>Packaging</b>	20 kg bag
<b>Appearance / Colour</b>	Grey powder
<b>Shelf Life</b>	12 months from date of production
<b>Storage Conditions</b>	Undamaged original sealed packaging, in dry cool conditions
<b>Maximum Grain Size</b>	Dmax:0.7mm

<b>Tensile Adhesion Strength</b>	Initial	$\geq 1.0 \text{ N/mm}^2$	(EN1348)
	Water Immersion	$\geq 1.0 \text{ N/mm}^2$	
	Heat ageing	$\geq 1.0 \text{ N/mm}^2$	
<b>Mixing Ratio</b>	4.8 litres of water per 20 kg bag 24%±1%		
<b>Fresh mortar density</b>	~1.51 g/cm <sup>3</sup>		
<b>Consumption</b>	Consumption is always depending on the substrate surface profile and roughness, the size of the tiles and the joints between them, as well as on the application technique (single spreading/floating method or an additional buttering layer on the back of the tiles as recommended for tiles larger than 30 x 30cm)). As a guide:		
	<b>Size of tile</b>	<b>Notched trowel size</b>	<b>Consumption</b>
	Small	6 mm	~2.5 kg/m <sup>2</sup>
	Medium	8 mm	~3.0 kg/m <sup>2</sup>
	Large	10 mm	~4.0 kg/m <sup>2</sup>
<b>Layer Thickness</b>	10 mm max.		
<b>Ambient Air Temperature</b>	+5 °C min. / +35 °C max.		
<b>Substrate Temperature</b>	+5 °C min. / +35 °C max.		
<b>Maturing time</b>	~3 minutes		
<b>Pot Life</b>	~ 2 hour		
<b>Open Time</b>	$\geq 0.5 \text{ N/mm}^2$ after 30 min		
<b>Curing Time</b>	24 - 36 hours		
<b>Curing Treatment</b>	Protect from adverse weather conditions, such as extremely high or freezing temperatures, rain, direct exposure to sun, for at least 12–24 hours from application.		

## SUBSTRATE QUALITY / PRE-TREATMENT

- Substrates must be properly cured, structurally sound, clean, dry and free of all contaminants such as dust, dirt, oil, grease, cement laitance, efflorescence, previous coatings and other surface treatments.
- Depending on the contaminants to remove, perform adequate preparation techniques, such as water-jet washing or sandblasting, in order to remove all traces of previous coatings which could reduce the product's adhesion on the substrate.
- Any small gradients or bumps or gravel can be levelled and filled with a layer of SikaCeram®-200 Porcelain, in maximum thickness of 10 mm, applied at least 24 h before laying the Ceram adhesive. For higher thickness, mortars of Sika MonoTop® or Sika-floor® Level range shall be used. Cracked substrates must be sealed with epoxy resins.
- For applications in hot climate on absorbent substrates, adequately dampen the surface prior product use. However, avoid stagnant water on the surface, which shall not be moist to touch and not be dark-mat (wet surface appearance: saturated, with surface dry).

## MIXING

Pour the recommended water in a suitable, clean mix-

ing container. While stirring slowly, add the powder to the water and mix thoroughly using a low speed (~500 rpm) electric mixer until a homogeneous and lump free mix is achieved.

After blending, leave the product maturing and then briefly stir it prior the application. The obtained mix has a very creamy consistency and is easily spreadable.

## APPLICATION

- SikaCeram®-200 Porcelain is applied using a notched trowel.
- Apply a sufficient amount of product to ensure complete wetting of the tiles' rear.
- Tiling has to be carried out on fresh glue, exerting an adequate pressure to ensure contact with the adhesive, and thus the perfect bonding. In case a surface film is formed on the adhesive, remove the adhesive layer with the flat part of the spatula and apply a fresh layer of adhesive.
- Avoid application under direct sun exposure and/or strong wind.

## CLEANING OF TOOLS

Application and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically.

## LIMITATIONS

- Gypsum plaster substrates must have a maximum moisture content of 0.5 %.
- If waterproofing layer under tiles is required, cement-based and acrylic-based are allowed. Refer to the related Sika product data sheet for specific information.
- Always apply on a test area first prior to carry out any work with natural stones tiles.

SikaCeram®-200 Porcelain shall not be applied on the following cases:

- On metal surfaces and wood.
- For all cases not explicitly described.

## 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.

## 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.

## 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.

## 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 adapt 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.

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### Product Data Sheet

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