

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-80 Ceramic KE

General Purpose, Cementitious Tile Adhesive

## DESCRIPTION

SikaCeram<sup>®</sup>-80 Ceramic KE is a cementitious, non-shrink, polymer containing thin bed tile adhesive used for permanent fixing of tiles. It is ready to use with the addition of water. It can be used for bonding of tiles internally (vertical and horizontal).

## USES

SikaCeram<sup>®</sup>-80 Ceramic KE is suitable for bonding the following types of high absorption tiles :

- Ceramic
- All types of high absorption ceramic tiles except those with very low absorption, such as glazed stoneware. ▪
- Can be used on substrates including Concrete, Cement Mortars and Bricks

## CHARACTERISTICS / ADVANTAGES

- Very good adhesion
- Easy to use with excellent workability and thixotropic consistency
- Good bond strengths
- Non Toxic

## PRODUCT INFORMATION

<b>Composition</b>	Cementitious mortar modified with polymers
<b>Packaging</b>	20 Kg bag
<b>Shelf life</b>	12 months minimum from date of production
<b>Storage conditions</b>	Store properly in original unopened, sealed and undamaged packaging. Keep away from direct sunlight.
<b>Appearance / Colour</b>	Grey powder
<b>Maximum grain size</b>	0.6 mm
<b>Density</b>	≈ 1.7 kg/litre

## TECHNICAL INFORMATION

<b>Tensile adhesion strength</b>	0.3 N/mm <sup>2</sup> (According to CO, Test method EN 1348:2007)
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## APPLICATION INFORMATION

<b>Mixing ratio</b>	Add about 5.2 – 5.4 liters clean potable water to a 20 kg bag
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<b>Consumption</b>	The consumption depends on the surface profile and roughness of the substrate and the placing technique (simple placing or back-back-“buttering”). Consumption 1 / 3 - One 20 kg bag will cover approximately 5 – 7 m <sup>2</sup>
<b>Layer thickness</b>	Minimum 2 mm Maximum 5 mm
<b>Ambient air temperature</b>	Minimum: +5°C Maximum: +40°C
<b>Substrate temperature</b>	Minimum: +5°C Maximum: +35°C
<b>Open Time</b>	15 minutes
<b>Adjustability time</b>	Once the tiles are set into the mortar, they can be adjusted for up to approximately 15 minutes (at +25°C)

## 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

- Cementitious substrates must be strong enough for application of the tiles and the substrates should not continue to shrink after the installation of the tile.
- Do not exceed the recommended water dosage.
- Apply only to sound, prepared substrates. Do not exceed maximum layer thicknesses.
- If additional waterproofing underneath the tiles is required, then the following products can be used: Sika TopSeal®-107, Sika Cemflex®, etc.
- Refer to the relevant product data sheet for more information.
- Protect freshly applied material from rapid drying due to heat, wind etc. and from contact with water or other liquids before the mortar has hardened. 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, clean and free from dirt, oil, grease or other contaminants and loose or friable particles.
- Weak concrete and/or cement laitance must be removed by suitable mechanical means such as abrasive blast cleaning; high pressure water jetting (minimum 150 bar); scabbling or needle gunning.
- On “new” or smooth faced concrete, surfaces should be sand blasted.
- Repairs to the substrate, filling of blowholes/voids etc. must be carried out using appropriate products from the Sika® Rep range of materials or Sika®

MonoTop range.

- 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 application of the product, preferably by brush and/or vacuum.
- In normal conditions, no primer is required.
- Use clean, cool water to pre-dampen the substrate especially if the substrate is very porous and if the temperature is high and relative humidity low - do not leave any standing water.
- Variations in level must be less than 5 mm, measured with a 2 meter straight edge.
- If necessary, the substrate should be leveled prior to application.

### MIXING

- Add about 5.2 – 5.4 liters clean potable water to a 20 kg bag.
- Mix mechanically using a forced action mixer or slow speed drill (< 500 rpm) and mixing paddle for at least 3 minutes until a homogeneous mix, free of lumps is achieved.
- Do NOT use a normal free fall concrete mixer.
- Do not mix more material than can be used within the open time.
- Leave material to stand in mixing container until the majority of bubbles have dispersed (minimum 2 minutes).
- Then remix the material for 15 seconds – the product is now ready for use.

### APPLICATION

- Apply SikaCeram®-80 Ceramic KE at 2 - 5 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 15 - 30 minutes
- Apply with “V”-notched trowels for small tiles.
- Apply with square notched trowel for bigger tiles.
- Press tiles firmly into the mortar with a twisting action to ensure optimum adhesion.

### CLEANING OF EQUIPMENT

Clean all equipment and tools with water immediately after use. Dry hardened material can only be removed

mechanically.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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.

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### **Product Data Sheet**

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