

## PRODUCT DATA SHEET

SikaCeram<sup>®</sup>-80

## General Purpose Cementitious Tile adhesive for thin Bed Application

**DESCRIPTION**

SikaCeram<sup>®</sup>-80 is an adhesive mortar, easy to use with addition of water, cement-based, special fillers and additives for laying tiles internally.

**USES**

Sikaceram<sup>®</sup>-80 is suitable for bonding:

- Ceramic tiles
- All types of very high absorption tiles

NB: For high quality ceramic tiles such as sandstones, it is recommended to make a preliminary test. SikaCeram<sup>®</sup>-80 can be used on substrates including:

- Concrete
- Cement mortars
- Bricks

Sikaceram<sup>®</sup>-80 can be used for internal application and it is recommended to use other sikaceram products for external applications, water resistance effect, large tile application and sensitive surfaces like (raincoat, metal, old coatings etc).

**FEATURES**

- Very good adhesion
- Easy to use with excellent workability and thixotropic consistency
- Non toxic

**PRODUCT INFORMATION**

<b>Packaging</b>	20 kg
<b>Shelf life</b>	12 months in its original, undamaged packaging
<b>Storage conditions</b>	Undamaged original sealed packaging, protect from humidity and excessive heat.
<b>Appearance and colour</b>	Grey Powder
<b>Maximum grain size</b>	0.5 mm
<b>Grain size distribution</b>	0.5 mm
<b>Fresh mortar density</b>	1.6± 0.2kg/litre when wet mix at 25°C
<b>Consumption</b>	The consumption depends on the surface profile, roughness of the substrate and the placing technique (simple placing and regular surface). A 20 kg bag will cover approximately 4- 5.5 m <sup>2</sup> .
<b>Layer thickness</b>	Minimum 2mm Maximum 5mm
<b>Ambient air temperature</b>	Minimum: +8°C Maximum: +40°C

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## Mixing ratio

Add about 4-4.5 litres clean potable water to a 20kg 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 5 minutes). Then remix the material for 15 seconds- the product is now ready for use. If open time is exceeded or the adhesive dries prematurely, remove tiles and re-apply using fresh material

## Substrate temperature

Minimum: +8°C  
Maximum: +35°C

## Open Time

20 minutes (25°C) (EN 1346)

## Curing time

Before jointing/ grouting works - Min 24 hours  
Before opening to light foot traffic - Min 24 hours  
Before opening to full traffic - Min 14 days

## Adjustability time

Once the tiles are set into the mortar, they can be adjusted for up to approximately 20 minutes (at +25°C)

## 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.

## FURTHER INFORMATION

- Cementitious substrate must be strong enough for application of the tiles and the substrate should not continue to shrink after the installation of the tile.
- Do not exceed the recommended water dosage. Apply only to sound, prepared substrate.
- Do not exceed maximum layer thickness.
- If additional waterproofing underneath the tiles is required, then the following products can be used: Sika Top® Seal, 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.

## ECOLOGY, HEALTH AND SAFETY

### SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surface must be clean, sound, level and uncontaminated by oil or grease. Remove cement literacies, formwork traces and loosely adhering particles by sand blasting or high pressure water jetting. New concrete block work, render or screed should be allowed to cure for at least 28 days and or until shrinkage movements has completed- before fixing tiles. Absorbent substrate must be pre-watered to saturate surface dry (SSD) conditions.

## APPLICATION INSTRUCTIONS

Apply SikaCeram®-80 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 10 - 20 minutes. Apply with "V" -notched trowels for small tiles. Apply with square notched trowels for medium

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 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.

## 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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