

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-103 Stop Water

WATER-REPELLENT ADHESIVE CLASSIFIED C1 ACCORDING TO EN 12004

## DESCRIPTION

SikaCeram-103<sup>®</sup> Stop Water is a glue-like mortar, easy to use with the simple addition of water, based on cement, fillers and special additive for the installation of ceramic tiles in thin and continuous layers.

## USES

SikaCeram-103<sup>®</sup> Stop Water can be used on most substrates.

- Concrete, mortar, stone, bricks, etc.
- Porcelain ceramic tiles.
- In interior floors and walls, in new works.

## FEATURES

- Easy to use thanks to its very good handling and consistency.
- Good adhesion to most substrates (concrete, mortar, stone, bricks, etc.).
- Water-resistant.
- High durability and excellent protection.
- Long practical service life

## CERTIFICATES AND TEST REPORTS

C1 marking according to EN 12004

## PRODUCT INFORMATION

Composition	Portland Cement, mineral fillers, special admixtures
Packaging	20 kg bag
Shelf life	12 months minimum from date of production.
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between 5 °C and 35 °C. Protect from direct sunlight, heat and moisture.
Appearance and colour	Grey powder
Maximum grain size	< 0.4 mm

## APPLICATION INFORMATION

Mixing ratio	4.2 to 4.6 liters per 20 kg bag.
Fresh mortar density	1.55 ± 0.2 kg/l
Consumption	The consumption depends on the surface profile and roughness of the substrate and on the size of the tiles and the placing technique (simple placing "floating" or back to back "buttering-floating"). As a guide: For 1 mm thickness over 1m <sup>2</sup> area approximately 1.5 kg of material. One 20 kg bag will cover approximately 6.7 m <sup>2</sup> at 2 mm minimum thickness.

<b>Layer thickness</b>	1 mm min. / 6 mm max.
<b>Ambient air temperature</b>	+5 °C min. / +35 °C max.
<b>Substrate temperature</b>	+5 °C min. / +35 °C max
<b>Pot Life</b>	1 hour (at +23°C)
<b>Open Time</b>	20 minutes at +23°C ± 2°C
<b>Adjustability time</b>	15 min at +23°C ± 2°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

- Protect freshly applied material from rain, wind, etc.
- Make a test area prior to carrying out any work with natural stone tiles.
- White version of tile adhesive is recommended for translucent natural stone tiles.
- It is not usually necessary to pre-dampen the tiles.

For gypsum board substrate, primer need to be applied, please contact Sika Technical Department. SikaCeram-103® Stop Water shall not be applied on the following cases:

- On metal surfaces and wood
- On old ceramic tiles
- On water immersed areas
- Very large tiles

## ECOLOGY, HEALTH AND SAFETY

### 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 water-jet 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-103® Stop Water, to a maximum thickness of 12 mm, applied at least 24 hours before laying the ceramic tiling. For larger and thicker areas of surface reprofiling and making good, appropriate mortars from the SikaRep®, Sika MonoTop® or Sikafloor® Level range should be used. Cracks in substrates must be identified and sealed appropriately e.g. with Sikadur epoxy resins.
- For applications in hot climates / environments and / or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product applica-

tion, 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, a suitable Sika® waterproofing product / system should be applied before the tiling.

### MIXING

Mix 20 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. Use a blender at 500 rpm maximum; do not mix at faster rate because of mechanical strength decay of the cured product. After blending, leave the product curing for 5 minutes in the mixing container and then briefly stir the mix prior to application. The obtained mix results very creamy, easily spreadable and thixotropic.

### APPLICATION

SikaCeram-103® Stop Water is applied using notched trowel. The amount of product should be enough 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, it is necessary to wipe the trowel on the adhesive layer previously applied. Avoid wetting with water the adhesive already applied, it damages the adhesive.

### CLEANING OF EQUIPMENT

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

## 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.

