

# PRODUCT DATA SHEET

## SikaCeram<sup>®</sup>-100 HK

### HIGH PERFORMANCE CEMENTITIOUS TILE ADHESIVE

#### DESCRIPTION

SikaCeram<sup>®</sup>-100 HK is a one-component polymer modified high performance cementitious thin bed tile adhesive used for fixing of tiles. Suitable for bonding different types of tiles in both internal and external conditions.

#### USES

SikaCeram<sup>®</sup>-100 HK is suitable for fixing:

- Wall and floor tiles
- Insulation and acoustic tiles
- Marble and terrazzo tiles
- Mosaics, ceramic tiles and natural stones

#### CHARACTERISTICS / ADVANTAGES

- Conforms to EN 12004 C1 Tile Adhesive
- High bond strengths
- Easy to use, just add water
- Excellent workability
- Water resistance
- Can be applied directly on cement screeds, concrete or lime mortars
- Suitable for indoor and outdoor application
- Non Toxic and low VOC

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Cementitious mortar modified with specialized polymers.
<b>Packaging</b>	25 kg bag
<b>Appearance / Colour</b>	Grey Powder
<b>Shelf Life</b>	9 months
<b>Storage Conditions</b>	9 months from date of production if stored properly in undamaged and unopened original sealed packaging in cool dry conditions. Protect from direct sunlight and frost.
<b>Density</b>	Approx. 1.50 kg/L

#### TECHNICAL INFORMATION

<b>Tensile Adhesion Strength</b>	(Comply to EN 12004 requirement for C1 Classification)	
	Standard Conditions	≥ 0.5 N/mm <sup>2</sup>
	Heat Ageing	≥ 0.5 N/mm <sup>2</sup>
	Water Immersion	≥ 0.5 N/mm <sup>2</sup>
	Freeze Thaw Cycle	≥ 0.5 N/mm <sup>2</sup>
	Open Time	≥ 0.5 N/mm <sup>2</sup> at 20 minutes

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Add approx. 6-7 litres of clean water per 25 kg bag of powder	
<b>Consumption</b>	Approx. 1.2 kg powder/m <sup>2</sup> /mm (Depend on surface profile & size of notched trowel).	
<b>Substrate Temperature</b>	+5 °C min. / +40 °C max. (substrate)	
<b>Pot Life</b>	Approx. 2 hours at 25 °C	
<b>Curing Time</b>	At +25 °C	
	Before jointing works	Min. 24 hours
	Before opening to light foot traffic	Min. 24 hours
	Before opening to full traffic	Min. 7 days

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

#### Concrete, mortar and masonry

Surfaces must be clean, free from grease, oil and loosely adhering particles. All surfaces must be as true and flat as possible. Blow holes and irregularities should be filled with suitable SikaTop / MonoTop products.

**Saturate absorbent concrete surfaces thoroughly with water to achieve a surface saturated dry (SSD) condition.**

### MIXING

Add clean, cold water to a clean, suitable mixing container. Slowly add the SikaCeram®-100 HK powder and mix for at least 3 minutes until a homogeneous mix, free of lumps is achieved. Allow the mixture to stand for 5 minutes, and re-mix again before use by means of a slow speed drill.

**Do not add extra water or other ingredients after mixing!**

### APPLICATION

Apply SikaCeram®-100 HK directly to the concrete substrate, using a notched trowel and spread the mortar evenly over the area to be tiled. Press tiles firmly into SikaCeram®-100 HK with a twisting action to ensure optimum adhesion. The application thickness of SikaCeram®-100 HK should be 3-6 mm.

Cover only an area that can be tiled within the open time. When the surface of the spreaded tile adhesive is dry, remove and replace with fresh materials. Remove excessive tile adhesive before the adhesive has set. Wait for 24 hours to carry the joint grouting works.

### CLEANING OF TOOLS

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

## LIMITATIONS

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

Protect freshly applied material from freezing conditions and rain etc.

Do not attempt to dampen the applied adhesive to extend the open time as this interferes with the bond performance.

## 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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

### VOC DATA

VOC content (ready to use) not exceeding 65 gm/litre [Type of Regulated Adhesives and Regulated Sealants under the Air Pollution Control (volatile organic compounds) Regulation of Hong Kong: (Ceramic tile adhesives)]

## 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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