

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-100 TTB

(formerly Davco<sup>®</sup> TTB ECO)

### HIGH QUALITY CEMENT-BASED TILE ADHESIVE

#### DESCRIPTION

SikaCeram<sup>®</sup>-100 TTB is a thin bed cementitious tile adhesive which is formulated with recycled material and is approved by the Eco-labelling authority in Singapore as a sustainable building material.

SikaCeram<sup>®</sup>-100 TTB is ideal for fixing most types of tiles, including ceramic, slates, homogeneous, porcelain, etc. to interior and exterior walls and floors.

SikaCeram<sup>®</sup>-100 TTB is classified as C1 when tested to BS EN 12004 : 2007 + A1 : 2012.

#### USES

- Suitable to lay most types of tiles onto concrete, render, blockwork and rendered brickwork surfaces.

- Can be used on walls and floors in both interior and exterior applications.
- Can be used with SikaLatex<sup>®</sup>-751 when fixing dense tiles such as vitrified porcelain to obtain high bond strength and superior performance.
- Use with SikaLatex<sup>®</sup>-751 in areas of heavy movement.

#### CHARACTERISTICS / ADVANTAGES

- Very good adhesion
- Easy to mix and use
- Excellent workability and thixotropic consistency
- Formulated with recycled material to reduce carbon footprint

#### PRODUCT INFORMATION

Packaging	25 kg/bag
Appearance / Colour	<ul style="list-style-type: none"> <li>▪ Grey powder</li> <li>▪ White powder</li> </ul>
Shelf Life	12 months from the date of production
Storage Conditions	Store properly in original, unopened and undamaged sealed packaging in dry conditions. Keep away from direct sunlight and frost.
Density	1.5 ± 0.1 kg / ltr

#### TECHNICAL INFORMATION

Tensile Adhesion Strength	28 day	≥ 0.5 N/mm <sup>2</sup>
	After water immersion	≥ 0.5 N/mm <sup>2</sup>
	After heat ageing	≥ 0.5 N/mm <sup>2</sup>

#### APPLICATION INFORMATION

Mixing Ratio	5.50 - 6.25 ltr of liquid / 25 kg of SikaCeram <sup>®</sup> -100 TTB
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<b>Consumption</b>	6 mm x 6 mm notched trowel	3.5 kg/m <sup>2</sup>
	12 mm x 12 mm notched trowel	7.0 kg/m <sup>2</sup>
	20 mm x 20 mm notched trowel	11.9 kg/m <sup>2</sup>
<b>Pot Life</b>	60 minutes	(@ 28 °C)
<b>Open Time</b>	Up to 20 minutes	(@ 25 °C)
<b>Curing Time</b>	24 hours	(@ 28 °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.

## 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 PREPARATION

All surface must be structurally sound, dry, clean and free from movement, oil, grease, wax and other contaminants.

Painted surfaces must be scabbled / abraded to expose at least 75 % of clean surface. Expansion joints coinciding with joints in the substrate should be incorporated at the design stage at a maximum of 5 metre spacings and must not be tiled over.

Newly rendered surfaces must be allowed to cure for at least 7 days. Very porous surfaces should be primed with Sikalastic®-500 Acrylic Primer AP. Steel trowel finished concrete must be acid-etched or wire brushed prior to tiling.

### MIXING

Add SikaCeram®-100 TTB to the liquid component in a pail, mixing continuously until a lump-free, creamy consistency is achieved. Allow the mixture to stand for 5 - 10 minutes, and remix it before use.

## APPLICATION

- Spread the adhesive onto the substrate using either a 6 mm x 6 mm to 12 mm x 12 mm notched trowel for wall tiling, or a 12 mm x 12 mm to 20 mm x 20 mm notched trowel for floor tiling. The choice of the trowel should be governed by the size of the tiles, depth of knobs, grooves or ridges on the back of the tiles and the evenness of the substrate.
- A 6 mm x 6 mm notched trowel is recommended for mosaic tiles.
- Thicker bed of adhesive allow for better contact to the substrate as well as picking up unevenness especially in the case of slates.
- Spread approximately 1.2 - 1.5 m<sup>2</sup> of adhesive at a time. Ensure that the adhesive is wet when the tiles are laid and tapped into position to ensure positive contact with the adhesive.
- Ensure that there are no voids under the tiles.
- Do not allow the adhesive to skin over prior to tiling.
- It is important to butter coat the back of the tiles to improve adhesion and avoid hollowness especially for large format tiles and tiles with grooves and ridges.
- In cases where the tile has no or very low water absorption rate, or where the the back of tile has been pre-coated with an impervious film that may cause debonding, an adhesion promoter/primer should be applied.

## APPLICATION METHOD / TOOLS

### *Grouting after tile installation*

Grouting should preferably be carried out at least 24 hours after the completion of tiling.

For grout joints up to 4 mm wide use SikaCeram®-658 Coloured Grout CFG.

## 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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