

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-100 VN

### Prepacked Cementitious Tile Adhesive

#### DESCRIPTION

SikaCeram<sup>®</sup>-100 VN is prepacked cementitious. The product is ideal for installing ceramic tiles, homogeneous tiles. SikaCeram<sup>®</sup>-100 VN can be used as thin bed or thick bed adhesive for floor and wall tiling works and is suitable for internal.

#### USES

Suitable for fixing:

- Wall and floor tiles
- Ceramics tiles
- Porcelain tiles
- Absorbing tiles
- Interior use only

#### CHARACTERISTICS / ADVANTAGES

- Damp and fungi resistance is good.
- Factory mixed – consistent quality.
- Better workability. Saves time installation and material cost.
- Tile can be adjusted up to 20 minutes after application.
- Flexible use for many items, many different requirements.
- Soaking of tiles in water before installation is not required.

#### PRODUCT INFORMATION

Chemical base	Cement, graded sand, several admixtures
Packaging	5 kg and 25 kg per bag
Appearance / Colour	Powder / Grey
Shelf life	Min 9 months if stored properly in unopened, original packaging.
Storage conditions	Dry, cool and shaded place
Density	1.50 kg/l (bulk density of powder) 1.85 kg/l (density of fresh mortar)

#### TECHNICAL INFORMATION

Tensile Adhesion Strength	≥ 0.5 N/mm <sup>2</sup> (on prepared, dampened concrete surface)	ISO 13007-2:2005 TCVN 7899-2:2008
Compressive Strength	~10 N/mm <sup>2</sup> (28 days)	ASTM C349-08
Thermal Resistance	Up to 90 °C	

## APPLICATION INFORMATION

<b>Mixing ratio</b>	Approx 5.5 L - 6.5 L of clean water per 25 kg bag												
<b>Consumption</b>	<p><b>Consumption:</b> Consumption is always dependent on the substrate surface profile and roughness, the size of the tiles and the joints between them, as well as on the application technique (single adhesive layer on the substrate, or with an additional 'buttering' layer on the back of the tiles as recommended for tiles larger than 30 x 30 cm). As a guide:</p> <table><thead><tr><th>Size of tiles</th><th>Notched trowel size</th><th>Consumption</th></tr></thead><tbody><tr><td>Small</td><td>6 mm</td><td>~ 2-3 kg/m<sup>2</sup></td></tr><tr><td>Medium</td><td>8 mm</td><td>~ 3-4 kg/m<sup>2</sup></td></tr><tr><td>Large</td><td>10 mm</td><td>~ 5-7 kg/m<sup>2</sup></td></tr></tbody></table> <p>Or use our on line tile adhesives consumption calculator at <a href="http://sikaceram.com/nz/consumption-calculator/adhesive">http://sikaceram.com/nz/consumption-calculator/adhesive</a></p> <p><b>Coverage:</b> ~7- 8m<sup>2</sup> per 25 kg bag (based on 2 mm mortar thickness).</p>	Size of tiles	Notched trowel size	Consumption	Small	6 mm	~ 2-3 kg/m <sup>2</sup>	Medium	8 mm	~ 3-4 kg/m <sup>2</sup>	Large	10 mm	~ 5-7 kg/m <sup>2</sup>
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<b>Substrate Temperature</b>	Minimum 8°C Maximum 40°C												
<b>Pot Life</b>	~60 minutes (at 27°C/ 65% r.H)												
<b>Adjustability Time</b>	Approx 20 minutes.												
<b>CURING TREATMENT</b>	Waiting time before grouting: <ul style="list-style-type: none"><li>▪ For wall - after 7 to 8 hours (depending on temperature).</li><li>▪ For floor – after 24 hours.</li><li>▪ Open to full traffic – after 14 days.</li></ul>												

## 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

**Ecology:** Do not dispose in the water

**Transportation class:** Non- hazardous

**Waste disposal:** According to local law

**Important notes:** SikaCeram®-100 VN is cement base and is therefore alkaline. Suitable precautions should be taken to minimize direct contact with the skin. If the material gets into the eyes, rinse immediately with clean water and seek medical attention.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surface must be clean, sound, level and uncontaminated by oil or grease. Remove cement laitance, formwork traces and loosely adhering particles by sand blasting or high pressure water jetting. Absorbent substrates must be pre-wetted to saturated surface dry condition.

### MIXING

Add approximately SikaCeram®-100 VN powder to approx 5.5 L - 6.5 L of clean water and mix thoroughly using a hand-held or mechanical mixer for 3-5 minutes until a homogeneous lump-free paste is achieved. Allow the mix to stand 1-2 minute and thoroughly re-mix for another 1 minute before using.

### APPLICATION

Use a notched trowel for application onto the substrate and buttering onto the back-face of the tile to enhance the performance and proper coverage of the adhesive. Tile with deep groove should be properly buttered and ensure the tile adhesive grout have proper coverage in the inner groove of the tiles. The tiles should be firmly pressed onto the substrate and immediately tamped into position. Any adjustment of tile should be done within 20 minutes after application. Ensure the tiles and tiles adhesive are properly in

contact with the substrate.

## CLEANING OF TOOLS

Remove non-hardened SikaCeram®-100 VN products from tools and equipment with water. 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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