

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-128 MY

## C2E High performance cement based tile adhesive

### DESCRIPTION

SikaCeram<sup>®</sup>-128 MY is a high performance, thin layer, cementitious tile adhesive, supplied ready to use with the addition of water, for bonding ceramic tiles, porcelain tiles and mosaics of every type of floors and walls internally.

### USES

SikaCeram<sup>®</sup>-128 MY, a product used for bonding ceramic tiles in continuous thin layers, up to 10 mm thick. Due to its excellent adhesion, it can be used in situations where traditional tile adhesives for bonding tiles are not suitable due to the type of tile, the substrate or the specific job situation or location. SikaCeram<sup>®</sup>-128 MY is suitable to bond the following types of tile:

- Ceramic, porcelain, homogeneous tiles
- All type of low and high absorption tiles

SikaCeram<sup>®</sup>-128 MY can be used on substrates including:

- Concrete and mortar
- Bricks
- Tiled surfaces (walls and floors)
- Large size tiles

SikaCeram<sup>®</sup>-128 MY can be used on walls and floors internally.

### CHARACTERISTICS / ADVANTAGES

- Easy to use with excellent workability
- SikaCeram<sup>®</sup>-128 MY can be applied on a vertical surface without sagging or letting the tiles slip, even when heavy tiles are used
- Very good adhesion to most common substrates (concrete, cementitious mortar, stone, bricks, etc.)
- Very good adhesion to existing tiles
- Compatible with Sikalastic<sup>®</sup>-1 KMY, SikaTop<sup>®</sup> Seal-107 (MY) and SikaTop<sup>®</sup> Seal-109 MY
- Can be used with SikalateX<sup>®</sup> range of products to increase performance of the adhesive

### PRODUCT INFORMATION

Composition	Cementitious mortar modified with specialized polymers
Packaging	25 kg bag
Appearance / Colour	Grey powder
Shelf Life	6 months from date of production
Storage Conditions	Store properly in dry conditions, in undamaged and unopened, original sealed packaging.
Maximum Grain Size	0.4 mm (EN 12192-1)

### TECHNICAL INFORMATION

Tensile Adhesion Strength	1.0 N/mm <sup>2</sup> (EN 1348:2007)
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### APPLICATION INFORMATION

<b>Mixing Ratio</b>	5.75–6.25 L of water per 25 kg bag														
<b>Consumption</b>	<p>This depends on the level, profile and surface roughness of the substrate, the size of the tiles and the technique of placing (simple placing or "back"-buttering).</p> <p>As a guide, in kilogram of powder per m<sup>2</sup> on flat surfaces:</p> <table border="1"> <thead> <tr> <th>Tiles size</th> <th>Coverage</th> <th>Trowel size</th> </tr> </thead> <tbody> <tr> <td>Mosaics and small tiles</td> <td>~2.0–3.0 kg/m<sup>2</sup></td> <td>3 mm × 3 mm notched trowel</td> </tr> <tr> <td>Normal size tiles (30 cm × 30 cm)</td> <td>~5.0–5.5 kg/m<sup>2</sup></td> <td>6 mm × 6 mm notched trowel</td> </tr> <tr> <td>Large size tiles up to 3600 cm<sup>2</sup> (internal floors)</td> <td>~10.0–11.0 kg/m<sup>2</sup></td> <td>12 mm × 12 mm notched trowel</td> </tr> </tbody> </table> <p>The consumption above may only serve as a guide. It is highly recommended to carry-out trials on site to determine the actual coverage.</p>			Tiles size	Coverage	Trowel size	Mosaics and small tiles	~2.0–3.0 kg/m <sup>2</sup>	3 mm × 3 mm notched trowel	Normal size tiles (30 cm × 30 cm)	~5.0–5.5 kg/m <sup>2</sup>	6 mm × 6 mm notched trowel	Large size tiles up to 3600 cm <sup>2</sup> (internal floors)	~10.0–11.0 kg/m <sup>2</sup>	12 mm × 12 mm notched trowel
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<b>Layer Thickness</b>	3 mm min. / 10 mm max.														
<b>Ambient Air Temperature</b>	+5 °C min. / +40 °C max.														
<b>Substrate Temperature</b>	+5 °C min. / +40 °C max.														
<b>Applied Product Ready for Use</b>	<p>At 25 °C</p> <table border="1"> <tbody> <tr> <td>Before jointing works</td> <td>Min. 24 hours</td> </tr> <tr> <td>Before opening to light foot traffic</td> <td>Min. 24 hours</td> </tr> <tr> <td>Before opening to full traffic</td> <td>Min. 7 days</td> </tr> </tbody> </table>			Before jointing works	Min. 24 hours	Before opening to light foot traffic	Min. 24 hours	Before opening to full traffic	Min. 7 days						
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<b>Adjustability Time</b>	~30 minutes (at +20 °C)														
<b>Fresh Mortar Density</b>	~1.80 kg/l (at +25 °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.

## IMPORTANT CONSIDERATIONS

- Cementitious substrates must be at least 1 month old.
- 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.
- In cases whereby Marble/Granites are used, it is highly recommended that trials/mock-up with the actual Marble/Granite and SikaCeram®-128 MY be carried-out to determine the suitability of use.
- Do not attempt to dampen the applied adhesive to extend the open time as this interferes with the bond performance.
- When use with SikaLatex®, please ensure all ratio of SikaLatex® to SikaCeram®-128 MY are consistent. Recommendations are 3–6 L of SikaLatex®, as a direct replacement for the total water required per 25 kg bag. For more information on dilution of SikaLatex®, please refer to the Product Data Sheet.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety

Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Ensure all concrete slabs are allowed to cure fully and have a wood float finish. All rendered surfaces must be allowed to cure for at least 7 days prior to commencing tiling. The maximum variation in the plane of the concrete must not exceed 5 mm in 3 m for floors and 4 mm in 2 m for walls. Steel trowel finished concrete surfaces must be mechanically abraded prior to commencement of tiling. Ensure all surfaces are sound, dry and free from excessive movement, oil, dust, grease, wax, curing compounds, release agents and any other loose or contaminating materials. Fibre cement sheets when used as an underlay or wall/floor material must be a minimum of 6 mm in thickness. For heavy duty commercial applications it should be a minimum of 9 mm thick and all should be fixed in accordance with the manufacturer's instructions and the relevant standards. Compressed fibre cement sheets when used as a floor substrate must be 15 mm thick, and when used as a wall substrate must be 9mm thick and should be installed in accordance with the manufacturer's instructions and the relevant standards. Gypsum plasterboard sheets when used as a wall sub-

strate must be a minimum of 10 mm thick, and installed in accordance with the manufacturer's instructions and the relevant standards.

Weak concrete and/or cement laitance must be removed. Repairs to the substrate, filing of blowholes / voids, etc. must be carried out using appropriate products from the SikaTop® or Sika MonoTop® range of material. Allow a waiting time of 24 to 48 hours before the tiling works. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum. If the substrate is very porous, and/or if the temperature is high and the relative humidity is low, it is advisable to pre-dampen the surface - do not leave any standing water or apply Sika® Primer-11 WMY. Please contact Sika local representative for further information on the recommended primer for the specific substrate.

## MIXING

Mix thoroughly with clean water for a minimum of 3 minutes. Leave material to stand in container (for a minimum 5 minutes). Then remix the material for 15 seconds - the product is now ready for use. SikaCeram®-128 MY must be mechanically mixed using a forced action mixer or in a clean container using a drill and mixing paddle (< 500 rpm). A normal free fall concrete mixer is not suitable.

## APPLICATION

SikaCeram®-128 MY is applied using a notched trowel onto the substrate. Choose the size of trowel that will give the right thickness on the back of the tile.

As a guide:

SikaCeram®-128 MY is used for fixing absorbent tiles up to a maximum size of 3600 cm<sup>2</sup> (e.g. 60 cm x 60 cm) for indoor floors, up to 1800 cm<sup>2</sup> (e.g. 30 cm x 60 cm) for indoor walls.

Apply a uniform layer SikaCeram®-128 MY by trowel in small areas at the recommended thickness. Then, immediately, adjust the thickness using a notched trowel. Finally, place the tile, pressing it firmly into the mortar.

Open time is approximately 30 minutes under normal temperature and humidity conditions. Under unfavourable conditions, the open time might be shorter. If surface film has developed, pass the notched trowel through the adhesive again.

Once the surfaces has been appropriately prepared in accordance with the above instructions, apply the adhesive onto the substrate using an appropriate serrated trowel. SikaCeram®-128 MY should be applied onto the substrate at a rate of 1 m<sup>2</sup> at a time. Application rates greater than this can result in the adhesive

skinning before the tiles are laid. Once the adhesive is applied onto the substrate ensure that it does not skin prior to bedding the tiles. Rework the adhesive before placing the tiles within the pot life. When placing the tiles into the adhesive press them in by using the Tarver Method; press, slide perpendicular and return. Ensure no voids occur and full coverage of adhesive is under the tiles. For tiles with lugs, grooves or uneven backing it may be required to back butter the tile with adhesive. The final bed thickness of the adhesive should be at least 4 mm for wall tiling and 8 mm for floor tiling. Once the tiling is completed do not disturb the tiled surface for at least 6–8 hours at 20 °C.

## CLEANING OF TOOLS

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

## 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.

## 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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