

# SikaCeram®-188 MY

## C2TE High performance cementitious tile adhesive

### Product Description

SikaCeram®-188 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, walls.

### Uses

SikaCeram®-188 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®-188 MY is suitable to bond the following types of tile:*

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

*SikaCeram®-188 MY can be used on substrates including:*

- Concrete and mortar
- Bricks
- Tiled surfaces (walls and floors)
- Large size tiles
- Under floor heating
- Interior painted walls - if the paint coating is well bonded and sound

*SikaCeram®-188 MY can be used on walls and floors, internally or externally.*

### Characteristics / Advantages

- Easy to use with excellent workability and thixotropic consistency
- SikaCeram®-188 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
- Easy to use with excellent workability and thixotropic consistency
- Tile on tile of existing flooring with tile refurbishment system
- Compatible with Sikalastic 1KMY & SikaTop Seal 107/109MY

### Product Data

#### Form

**Appearance / Colours** Grey powder / White powder

**Packaging** 25 kg bag

#### Storage

**Storage Conditions / Shelf-Life** 6 months from date of production if stored properly in dry conditions, in undamaged and unopened, original sealed packaging. Not sensitive to frost.



Construction

## Technical Data

<b>Chemical Base</b>	Cementitious mortar modified with specialized polymers.	
<b>Density</b>	Fresh mortar density: ~ 1.70 kg/l (at +25°C)	
<b>Grading</b>	D <sub>max</sub> : 0.4 mm	(According to EN 12192-1)
<b>Layer Thickness</b>	3 mm min. / 10 mm max.	

## Mechanical / Physical Properties

EN 12004 requirement for C2TE classification

Tensile Adhesion Strength (BS EN 1348:2007)	
Standard Condition	≥ 1.0 N/mm <sup>2</sup>
Heat ageing	≥ 1.0 N/mm <sup>2</sup>
Water Immersion	≥ 1.0 N/mm <sup>2</sup>
Freeze thaw	≥ 1.0 N/mm <sup>2</sup>

Open Time (EN 1346:1997)	≥ 0.5 N/mm <sup>2</sup> at 30 minutes
Slip Resistance (EN 1308:1999)	≤ 0.5mm

## System Information

### Application Details

**Consumption** 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).

As a guide, in kilos of powder per m<sup>2</sup> in flat surfaces:

Mosaics and small tiles	~ 2.0 - 4.5 kg/m <sup>2</sup>
Normal size tiles (200 x 200)	~ 4.5 – 9.0 kg/m <sup>2</sup>
Large size tiles and on external floors (600 x 600 & above)	~ 9.0 – 13.5 kg/m <sup>2</sup>

\* This may only serve as a guideline. It is highly recommended to run a trial on site to determine the actual coverage.

### Substrate Quality

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 5mm in 3 metres for floors and 4mm in 2 metres 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 6mm in thickness. For heavy duty commercial applications it should be a minimum of 9mm 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 15mm thick, and when used 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 substrate must be a minimum of 10mm thick, and installed in accordance with the manufacturer's instructions and the relevant standards.

<b>Substrate Preparation / Priming</b>	<p>Weak concrete and/or cement laitance must be removed.</p> <p>Repairs to the substrate, filling 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.</p> <p>All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.</p> <p>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 about the recommended primer for the specific substrate.</p>
<b>Expansion Joints</b>	<p>Expansion/movement joints must be provided to allow for movement between adjacent building components. They should be as follows:</p> <ul style="list-style-type: none"> <li>■ Over existing joints in the substrate</li> <li>■ Where two different substrates meet e.g. timber and concrete</li> <li>■ Around fixed elements in the floor e.g. columns</li> <li>■ At internal vertical corners</li> <li>■ Around the perimeter of the floor</li> <li>■ In internal floors, where any dimension exceeds 9m or 6m if subjected to sunlight</li> <li>■ In external floors where any dimension exceeds 4.5m</li> <li>■ On wall surfaces at storey heights horizontally and approximately 3m-4.5m apart vertically</li> </ul> <p>Ideally they should be located over movement joints in the structural background and at structural material changes for example the horizontal joint at the bottom of floor slabs, vertical joints at internal vertical corners, and at junctions with columns. Movement joints should go right through the tile adhesive bed to the background and kept free from dirt and adhesive droppings. Movement joints must not be less than 6mm and not wider than 10mm. The movement joints must be filled with a Sikaflex® -11FC or Sikaflex® -PRO for floors or Sikasil® -C for walls.</p>
<b>Substrate Temperature</b>	+5°C min. / +40°C max.
<b>Ambient Temperature</b>	+5°C min. / +40°C max.
<b>Application Instructions</b>	
<b>Mixing</b>	~ 6.0 to 6.5 litre of water per 25 kg bag
<b>Mixing Time</b>	<p>Mix thoroughly with clean water for a minimum of 3 minutes.</p> <p>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.</p>
<b>Mixing Tools</b>	SikaCeram®-188 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.
<b>Application Method / Tools</b>	<p>SikaCeram®-188 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.</p> <p>As a guide:</p> <p>SikaCeram®-188 MY is used for fixing absorbent tiles up to a maximum size of 10,000 cm<sup>2</sup> (e.g. 60 x 120 cm) for indoor floors, up to 3,600 cm<sup>2</sup> (e.g. 60 x 60 cm) for indoor walls and outdoor paving, and 2,100 cm<sup>2</sup> (e.g. 30 x 60 or 45 x 45 cm) for façades without any mechanical clamps.</p> <p>Apply a uniform layer SikaCeram®-188 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.</p> <p>Open time is approximately 30 minutes under normal temperature and humidity conditions. Under unfavourable conditions, the open time might be shorter. If a surface film has developed, pass a notched trowel through the applied adhesive.</p> <p>Once the surfaces have been appropriately prepared in accordance with the above instructions, apply the adhesive onto the substrate using an appropriate serrated</p>

**..cont'd Application Method / Tools**

trowel. SikaCeram<sup>®</sup>-188 MY should be applied onto the substrate at a rate of 1m<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 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 1mm for wall tiling and 3mm 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.

**Rectification Time**

Once the tiles are placed into the mortar, they can be adjusted for ~ 20 minutes (at +20°C).

**Notes on Application / Limitations**

Cementitious substrates must be at least 1 months 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.

If any case whereby Marble/Granites are used, run trials with SikaCeram<sup>®</sup>-188 MY before hand. Sika Ceram<sup>®</sup>-260 Rapid Plus is highly recommended for Marbles/Granite/Stones

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

**Curing Details**

**Applied Product ready for use**

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

**Value Base**

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.

**Health and Safety Information**

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.

**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.



Sika Singapore Pte Ltd  
200 Pandan Loop, 06-02 Pantech 21  
Singapore 128388  
SINGAPORE

Phone: +65 6777 2811  
Fax: +65 6779 6200  
e-mail: [info@sg.sika.com](mailto:info@sg.sika.com)  
[www.sika.com.sg](http://www.sika.com.sg)



Sika Kimia Sdn Bhd  
Lot 689 Nilai Industrial Estate  
71800 Nilai, Negeri Sembilan DK  
MALAYSIA

Phone: +606-7991762  
Fax: +606-7991980  
e-mail: [info@my.sika.com](mailto:info@my.sika.com)  
[www.sika.com.my](http://www.sika.com.my)

