

## PRODUCT DATA SHEET

# SikaCeram®-100 MY

#### C1 CEMENT BASED TILE ADHESIVE

#### DESCRIPTION

SikaCeram®-100 MY is a good performance, thin layer, cementitious tile adhesive, supplied ready to use with the addition of water, for bonding ceramic tiles, porcelain tiles and mosaics on floors and walls.

SikaCeram®-100 MY is a cementitious adhesive with normal adhesion classification (C1).

## **USES**

SikaCeram®-100 MY is used for bonding ceramic tiles in continuous thin layers, up to 10 mm thick. Due to its good 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®-100 MY is suitable to bond:

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

SikaCeram®-100 MY can be used on:

- Concrete and mortar
- Bricks with render

SikaCeram®-100 MY can be used on internal walls and floors.

## **CHARACTERISTICS / ADVANTAGES**

- Easy to use with good workability and consistency
- Good adhesion to most common substrates (concrete, cementitious mortar, stone, bricks, etc.)
- 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®-118 to increase performance of the adhesive

## **APPROVALS / STANDARDS**

Classified as C1 in compliance with EN 12004.

## 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. Protect from direct sunlight, rain and water. Not sensitive to frost.	
Maximum Grain Size	~0.85 mm (EN 12192-1)	

#### **TECHNICAL INFORMATION**

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Tensile Adhesion Strength	Standard condition	≥ 0.5 N/mm²
	Heat ageing	≥ 0.5 N/mm²
	Water immersion	≥ 0.5 N/mm²

#### APPLICATION INFORMATION

Mixing Ratio	5.5–6.25 L of water per 25 kg bag		
Fresh Mortar Density	~1.5 kg/l (at +25 °C)		
nsumption  This depends on the level, profile and surface roughthe size of the tiles and the technique of placing (subttering).  As a guide:		ue of placing (simple placing or "back"	
	Mosaics and small tiles	2.0–3.0 kg/m²	
	Normal tiles (200 mm x 200 mm)	5.0–5.5 kg/m <sup>2</sup>	
	* This may only serve as a guideline. It is highly recommended to trials on site to determine the actual coverage.		
Layer Thickness	3 mm min. / 10 mm max.		
Ambient Air Temperature	+5 °C min. / +40 °C max.		
Substrate Temperature	+5 °C min. / +40 °C max.		
Open Time	Open time is approximately 20 minutes under normal temperature and humidity conditions. In unfavourable conditions, the open time may be shorter.		
Adjustability Time	Once the tiles are placed into the mortar, they can be adjusted within $^{\sim}20$ minutes (at +20 °C).		
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	
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#### **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 commencement of tiling works. The maximum variation in the plane of the concrete, using a straightedge, 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 works. 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 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 9 mm thick and should be 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 24–48 hours before the tiling works. All dust, loose and friable material must be completely removed from all surfaces before application of SikaCeram®-100 MY, 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-wet 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®-100 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

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fall concrete mixer is not suitable.

#### **APPLICATION**

SikaCeram®-100 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®-100 MY is used for fixing absorbent tiles below size of 900 cm² (e.g. 30 cm x 30 cm) for indoor floors.

Apply a uniform layer of SikaCeram®-100 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 20 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.

Once the surfaces have been prepared in accordance with the above recommendations, apply the adhesive onto the substrate using an appropriate serrated trowel. SikaCeram®-100 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. If skinning has occured, 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 air is trapped and full coverage of the adhesive is under the tiles. For tiles with lugs, grooves or uneven backing, back-buttering the tile with adhesive would be required. The final bed thickness of the adhesive should be at least 3 mm. Once the tiling works are 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 or cured material can only be removed mechanically.

#### **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 thickness.
- Protect freshly applied material from freezing conditions and rain etc.
- Do not attempt to dampen the applied adhesive to

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- extend the open time as this interferes with the bond performance.
- When used with SikaLatex®-118, ensure all ratio of SikaLatex®-118 to SikaCeram®-100 MY are consistent. Recommendations are 6.0–7.0 L of SikaLatex®-118, direct replacement for the total water required per 25 kg bag.

#### **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 Safety Data Sheet (SDS) 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.

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