

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-255

HIGH PERFORMANCE CEMENT BASE ADHESIVE WITH NO VERTICAL SLIP AND EXTENDED OPEN TIME. C2TE CLASSIFIED ACCORDING TO EN 12004

## DESCRIPTION

High performance cement base adhesive with no vertical slip and extended open time for fixing Vitrified Tiles, Glass Mosaic and Natural Stone. C2TE classified according to EN 12004

## USES

- Laying all kind of vitrified tiles, glass mosaic and natural stone.
- Laying marble and natural stone, provided not sensitive to water
- Indoor and outdoor, on walls and floors
- Indoor over-tiling applications on old tiles, without primer
- Suitable for applications where high performance is demanded, such as swimming pools, industrial and heavy trafficked floors

## PRODUCT INFORMATION

<b>Packaging</b>	25 kg bag
<b>Appearance / Colour</b>	Grey and White powder
<b>Shelf life</b>	12 months from date of production.
<b>Storage conditions</b>	Store properly in undamaged original sealed packaging, in dry cooled conditions.

## CHARACTERISTICS / ADVANTAGES

- No vertical slipping
- Extended open time
- Application upto 10 mm thick

## APPROVALS / CERTIFICATES

One-pack improved cement base adhesive. Particularly suitable for Vitrified and natural stones. Use on heating floor surfaces, industrial floors and swimming pools. EN12004 class C2TE.

Tensile Adhesion Strength	Value Grey	Value White	Requirement	Test Method	
	EN 12004				
	Initial Tensile Bond	1.9 N/mm <sup>2</sup>	1.8 N/mm <sup>2</sup>	≥ 1.0 N/mm <sup>2</sup>	EN 1348
	Tensile Bond after heat ageing	1.2 N/mm <sup>2</sup>	1.2 N/mm <sup>2</sup>	≥ 1.0 N/mm <sup>2</sup>	EN 1348
Tensile Bond after water immersion	1.4 N/mm <sup>2</sup>	1.5 N/mm <sup>2</sup>	≥ 1.0 N/mm <sup>2</sup>	EN 1348	
Slip Resistance	Value Grey	Value White	EN 12004	Test Method	
	Slip Resistance	≤ 0.5 mm	≤ 0.5 mm	≤ 0.5 mm	EN 1308
Mixing Ratio	~6.5-7 ltrs of water (26%-28%) for 25kg of SikaCeram®-255 Grey ~6.75-7.25 ltrs of water (27%-29%) for 25kg of SikaCeram®-255 White				
Consumption	The consumption is dependent on the surface profile and roughness of the substrate as well as on the size of the tiles and the application technique (double-spreading, in thin-bed consistency, or single-spreading, in flow-bed consistency). As a guide, in kilograms of powder per m <sup>2</sup> : 1.2 kg / m <sup>2</sup> / mm of thickness				
Layer Thickness	10 mm max				
Ambient Air Temperature	+5°C min; +35°C max				
Substrate Temperature	+5°C min; +35°C max				
Pot Life	~3-4 hours at 23°C				
Open Time	~30 minutes at 23°C			(EN 1346)	
Adjustability Time	~40 minutes at 23°C				
Curing Time	Applied product ready for use:				
	Before floor grouting - light foot Traffic	24-36 hours			
	Before wall grouting	4- 6 hours			

## SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be cement laitance free, clean and free from dirt, oil, grease or other contaminants and loose or friable particles. The substrate must be perfectly flat, sound and free from parts easily removed, non-deformable and correctly aged. Any small gradients or bumps can be levelled/filled with a layer of SikaCeram®-255 in a maximum thickness of 5 mm, applied at least 24 hours before laying the ceramic coating. For builds greater than 10mm thick, use the appropriate Sika MonoTop® or Sika® Level product(s).

SikaCeram®-255 is applied directly on plasters and cementitious substrates, cement-lime mortars, concrete, plasterboard, floater finished concrete and old ceramic floors.

## MIXING

Mix the contents of a 25 kg bag with the required amount of water (as specified above), using an electric mixer and a suitable mixing spiral at low speed, in a

clean bucket. Do not exceed a mixing speed of 500 rpm as doing so may reduce the final strength of the cured product. Mix to obtain a smooth paste free of lumps. After mixing, leave the product for 5 minutes, and then briefly stir the mixture prior to application. This should result in a very creamy, easily spreadable, and highly thixotropic adhesive.

## APPLICATION

SikaCeram®-255 is applied using a notched trowel. The amount of product should be enough to ensure complete wetting of the tile. Tiling has to be carried out on fresh adhesive, exerting an adequate pressure to ensure contact with the adhesive to form a full bond. If a surface film has formed on the adhesive, it is necessary to trowel over the previously applied adhesive layer. Avoid wetting the adhesive already applied with water.

To lay tiles sized 900 cm<sup>2</sup> (e.g. 30 x 30 cm) or larger, the double-spreading (Back buttering) thin-bed consistency or single-spreading flow-bed consistency techniques of adhesive application is always recom-

mended.

If the substrate is very porous, if the temperature is high and/or the relative humidity low, it is advisable to dampen the surface. Do not leave any standing water.

### CLEANING OF EQUIPMENT

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

### FURTHER INFORMATION

SikaCeram®-255 shall not be applied in the following cases:

- On metal surfaces and wood

### IMPORTANT CONSIDERATIONS

All technical data stated in this Product Data Sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. Values achieved in laboratory conditions: 23°C ± 2°C – R.H. 50% ± 5%. Higher temperatures reduce the indicated lapse time, oppositely, lower temperatures increase them.

### 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## 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 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.

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#### Product Data Sheet

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