

PRODUCT DATA SHEET

SikaCeram[®]-259

Cementitious tile adhesive for large tiles , C2TE classified according to EN 12004

DESCRIPTION

SikaCeram[®]-259 is a white cementitious, polymer modified, floor and wall adhesive for large ceramic tiles. Suitable for bonding all types of tiles. Layer thickness ≤ 10,0 mm. Indoor and outdoor use. EN 12004: Classification - C2 TE. Product can also be used for spot-fixing indoor insulating panels.

USES

Bonding the following types of tiles:

- All kinds of medium, large-sized tiles
- Grès porcelain
- Ceramic
- Earthenware
- Mosaic
- Glazed
- Marble and other natural stones (not sensitive to water)
- Porcelain
- Stoneware
- Unglazed
- Bonding many types of external thermal insulation composite system (EPS-XPS - etc...) up to 5 cm board thickness .

Bonding tiles for the following applications:

- Swimming pools
- Facades
- Heated floors (Water systems)
- Terraces and balconies
- Overlaying existing indoor sound ceramic tiles or stones

CHARACTERISTICS / ADVANTAGES

- White
- No vertical slip, high slump resistance and grab
- Extended open time
- Frost resistant
- Typical bonding substrates: Cementitious, ceramic,

- gypsum, PVC sheet, linoleum, vinyl tile/sheet, stone
- Spot-fixing indoor insulating panels of polystyrene, polyurethane foam and glass / rock wool

APPROVALS / CERTIFICATES

CE Marking and Declaration of Performance to EN 12004 – Adhesives for Tiles

PRODUCT INFORMATION

Composition	Portland cements, selected aggregates, water retention additives, re-dispersible polymer
Packaging	25 kg bags
Appearance / Colour	white powder
Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage conditions	In dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight.
Maximum grain size	D _{max} : 0,5 mm
Product declaration	CE-marking and Declaration of Performance as Normal setting cementitious adhesive with reduced slip and extended open time, C2TE, according to EN 12004-1:2017, based on assessment by notified laboratory and factory production control.

TECHNICAL INFORMATION

Tensile adhesion strength	Value, w/p ratio =	Requirement EN	(EN
	0.28 (23° C)	12004, class C2	1348)
	Initial	≥ 1 N/mm ²	≥ 1.1 N/mm ²
	After water immersion	≥ 1 N/mm ²	≥ 1.1 N/mm ²
	After heat ageing	≥ 1 N/mm ²	≥ 1 N/mm ²
Slip resistance	≤ 0,5 mm		(EN 12004-2)

APPLICATION INFORMATION

Mixing ratio	7 L of water per 25 kg bag												
Consumption	Consumption is dependent on the substrate, surface profile, roughness, size of the tiles, the joints between them and application technique. As a guide for a single adhesive layer: <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>~3 Kg/m²</td></tr><tr><td>Medium</td><td>8 mm</td><td>~4 Kg/m²</td></tr><tr><td>Large</td><td>10 mm</td><td>~5.5 Kg/m²</td></tr></tbody></table>	Size of tiles	Notched trowel size	Consumption	Small	6 mm	~3 Kg/m ²	Medium	8 mm	~4 Kg/m ²	Large	10 mm	~5.5 Kg/m ²
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Large	10 mm	~5.5 Kg/m ²											
Layer thickness	10 mm max.												
Ambient air temperature	+5 °C min. / +35 °C max.												
Substrate temperature	+5 °C min. / +35 °C max.												
Pot Life	~6 hours												
Open Time	≥ 30 minutes (tensile adhesion strength ≥ 0,5 N/mm ²) (EN 12004-2)												
Adjustability time	~50 minutes												
Applied product ready for use	<table><thead><tr><th>Use</th><th>Waiting time</th></tr></thead><tbody><tr><td>Grouting floors / walkability</td><td>24–36 hours</td></tr><tr><td>Grouting walls</td><td>4–6 hours</td></tr><tr><td>Full traffic</td><td>~14 days</td></tr><tr><td>Water immersion</td><td>~21 days</td></tr></tbody></table>	Use	Waiting time	Grouting floors / walkability	24–36 hours	Grouting walls	4–6 hours	Full traffic	~14 days	Water immersion	~21 days		
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Values determined in laboratory conditions: 23 °C ± 2 °C, R.H. 50 % ± 5 %. Higher temperatures will reduce the indicated waiting time, 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.

IMPORTANT CONSIDERATIONS

- Gypsum plaster and anhydrite screed substrates must have a maximum moisture content of 0,5 %.
- For application and consumption details of other system products, refer to the respective Product Data Sheets.
- For natural stone tiles always carry out a preliminary test application first.
- Avoid application in direct sunlight and/or strong wind / draughts.
- Do not apply on metal or wood surfaces in high temperature weather / in normal one suitable primer must be used.
- Do not add anything to the product that is not specified in this Product Data Sheet.
- Do not use for any applications not explicitly described in this Product Data Sheet.
- Do not use on marble or natural stone tiles if they are sensitive to water.
- Do not use on marble or natural stone tiles if they are susceptible to discolouration.
- Refer to tile manufacturer's instructions for guidance on providing expansion joints.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

In normal conditions, no primer is required when the product is applied on cementitious substrates, plaster, concrete, existing tiles, mosaic, marbles. In case of highly absorbent or demanding substrates, the following primers can be used:

<u>Substrate</u>	<u>Primer</u>
Porous substrates (gypsumboards, cement boards, e.t.c.)	Sika® Primer-10
Pore sealing / adhesion promoter on non-porous substrates (e.g. old tiles)	SikaSeramik®Astar

In any other substrates, please consult the technical department. For further information please refer to the respective product data sheet of the primer used. 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 correctly aged. Any small gradients or bumps can be leveled and filled with a layer of SikaCeram®-259, at

maximum thickness of 10 mm, applied at least 24 h before the laying process. For higher thickness, site-batched mortars prepared with SikaLatex® or SikaBond®DV or repair mortars Sika MonoTop® or SikaRep® are to be used.

In cases of demands for levelling the substrate, the self-leveling mortars from the Sikafloor® Level range can be used.

MIXING

Mix 25 kg bag with the necessary, above mentioned amount of water, using an electric mixer with a suitable mixing spiral at low speed (500 rpm maximum, in order to avoid air occlusion), in a clean bucket and until obtaining a smooth, lump-free paste.

After mixing, leave the product to stand for 5 min. and then briefly stir it again prior to application. The obtained mix results very creamy, easily spreadable and highly thixotropic.

APPLICATION

SikaCeram®-259 is applied using a suitable notched trowel.

Apply sufficient adhesive to the prepared fixing surface with the appropriate trowel and comb to the required bed thickness. Apply sufficient product to ensure adequate 'wetting' of the backs of the tiles.

Tiling must be carried out on freshly applied adhesive, exerting adequate pressure to ensure 100% complete and uniform contact with the adhesive to achieve optimum adhesion.

If a skin forms on the surface of the adhesive, immediately remove the adhesive layer with the trowel, discard material and apply a fresh layer of SikaCeram®-259 adhesive.

Adjust tiles if required.

Clean off surplus adhesive from tile face and between tile joints before the adhesive has dried.

After the required waiting time apply the appropriate grout into the tile joints.

CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be mechanically removed.

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, sub-

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strates 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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