

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-59 IQ

Cementitious tile adhesive, C1TE classified according to EN 12004

### DESCRIPTION

SikaCeram<sup>®</sup>-59 IQ is one-pack, premixed, cementitious tile adhesive with low slip and extended open time, containing selected aggregates, special admixtures and polymers.

SikaCeram<sup>®</sup>-59 IQ can be used for tile bonding at a thickness layer up to 10mm, for internal applications, on horizontal and vertical surfaces.

### USES

SikaCeram<sup>®</sup>-59 IQ used for bonding ceramic, porcelain & mosaic internally on walls & floors the following types of ceramic tiles:

- Normal Dry conditions
- Wet room applications like Kitchens, Bathrooms, WC, etc....
- Reservoirs
- Tile on tile application internally in condition of using non absorbent primer.

SikaCeram<sup>®</sup>-59 IQ can be used on different substrates including:

- Concrete and cement based mortars
- Bricks, plasters
- Cement boards, gypsum boards (with suitable primer)

### PRODUCT INFORMATION

<b>Composition</b>	Portland cement, selected aggregates, special additives and polymers
<b>Packaging</b>	20 kg bags
<b>Appearance / Colour</b>	Grey or white powder
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
<b>Storage conditions</b>	In dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight.
<b>Maximum grain size</b>	~ 0,5 mm

### CHARACTERISTICS / ADVANTAGES

- Highly thixotropic - No vertical slip
- Extended open time
- Excellent adhesion on most substrates
- Fast application, easy laying of tiles
- Applicable in thicknesses up to 10 mm

### APPROVALS / CERTIFICATES

CE Marking and Declaration of Performance according to EN 12004-1 - Adhesives for ceramic tiles

#### PRODUCT DATA SHEET

SikaCeram<sup>®</sup>-59 IQ

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## Product declaration

CE-marking and Declaration of Performance as Normal setting cementitious adhesive with reduced slip and extended open time, C1TE, according to EN 12004-1:2017, based on assessment by notified laboratory and factory production control.

## TECHNICAL INFORMATION

<b>Tensile adhesion strength</b>	For White Powder :			
		<b>Value, w/p ratio =</b>	<b>Requirement EN</b>	(EN
		<b>0.28 (23° C)</b>	<b>12004, class C1</b>	1348)
	Initial	≥ 0.8 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>	
	After water immersion	≥ 0.7 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>	
	After heat ageing	≥ 0.6 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>	
	For Grey Powder :			
	<b>Value, w/p ratio =</b>	<b>Requirement EN</b>	(EN	
	<b>0.26 (23° C)</b>	<b>12004, class C1</b>	1348)	
Initial	≥ 0.9 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>		
After water immersion	≥ 0.7 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>		
After heat ageing	≥ 0.7 N/mm <sup>2</sup>	≥ 0.5 N/mm <sup>2</sup>		
<b>Slip resistance</b>	≤ 0,5 mm		(EN 12004-2)	

## APPLICATION INFORMATION

<b>Consumption</b>	The consumption depends on the surface profile and roughness of the substrate as well as on the size of the tiles and the placing technique simple placing (application to one surface only “notched trowel or floating method”) or back-buttering (application to both surfaces “floating and buttering method”). As General Guide : 1 bag of product ( 20 kg ) can cover 3 -4 m <sup>2</sup> using average adhesive thickness of 3- 4 mm applied on one surface face .		
<b>Layer thickness</b>	max. 10 mm		
<b>Ambient air temperature</b>	+5 °C min. / +35 °C max.		
<b>Substrate temperature</b>	+5 °C min. / +35 °C max.		
<b>Pot Life</b>	~ 3-4 hours at +23 °C		
<b>Open Time</b>	≥ 30 minutes (tensile adhesion strength ≥ 0,5 N/mm <sup>2</sup> )		(EN 12004-2)
<b>Adjustability time</b>	~ 30 min. at +23 °C		
<b>Applied product ready for use</b>	Before grouting on floor – light foot traffic	24* hours	
	Before grouting on wall	5-12* hours	
	Full traffic	~14* days	
<small>* Values got at laboratory conditions: 23°C ± 2°C – R.H. 50% ± 5%. Higher temperatures reduce the indicated lapse times, oppositely, lower temperature increase them.</small>			

## 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

- Do not exceed the recommended water dosage.
- Apply only to sound, suitably prepared substrates.
- Do not exceed the maximum layer thicknesses (10 mm).
- Gypsum plaster substrates must have a minimum

thickness of 10 mm and a maximum moisture content of 0,5%.

- If additional waterproofing underneath the tiles is required, then the following products can be used: SikaTop® Seal 107 , Sikalastic®-152, Sikalastic®-1K, Sika® SealTape-S , Sika® SealTape-F.
- Protect freshly applied material from freezing conditions and rain, etc for at least 24 hrs.
- Pre-dampening of tiles is not required.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall

### PRODUCT DATA SHEET

SikaCeram®-59 IQ

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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:

Substrate	Primer
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®-59 IQ, 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 20 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®-59 IQ is applied using notched trowel. The amount of product should be enough to ensure complete wetting of the tiles' rear. Tiling has to be carried out on the fresh adhesive, exerting adequate pressure

to ensure contact with the adhesive and thus the perfect adhesion. In case a surface film is formed on the adhesive, it is necessary to wipe the trowel on the adhesive layer previously applied. Avoid wetting with water the already applied adhesive as this can impair the bonding process. Select the suitable trowel size depending on the tile size .

### 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, 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 Iraq (Sika Trading L.L.C.)

Erbil / Baghdad / Basra  
Tel: +96 477 303 74451  
info@iq.sika.com  
irq.sika.com

#### PRODUCT DATA SHEET

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