

PRODUCT DATA SHEET

SikaCeram®-259 Plus IQ

C2TE High performance cementitious tile adhesive with extended open time.

DESCRIPTION

SikaCeram®-259 Plus IQ is a high performance, polymer modified, cementitious tile adhesive, supplied ready to use with the addition of water, for bonding many types of tiles for floors and walls. Suitable for indoor and outdoor use.

USES

Bonding the following types of tiles:

- All type of low and high absorption tiles
- Ceramic
- Mosaic
- Marble and other natural stones
- Porcelain
- Bonding many types of external thermal insulation composite system (EPS-XPS - etc...).

Bonding tiles for the following applications:

- Facades.
- Flooring on water-heated screeds.
- Terraces and balconies.

Bonding tiles for the following substrates:

- Concrete, plaster, blocks and all cementitious substrates.
- Gypsum plaster and gypsum board.
- Bricks.
- Existing tiles, including low and high absorption tiles.

FEATURES

- Suitable for use in hot and tropical climatic conditions.
- Easy to use with excellent workability and thixotropic creamy consistency.
- Can be applied on a vertical surface without sagging or tiles slipping, even when heavy tiles are used.
- Compatible with Sika cementitious waterproofing systems, SikaTop® Seal series.

CERTIFICATES AND TEST REPORTS

SikaCeram®-259 Plus IQ is classified as **C2TE** in compliance with EN 12004.

PRODUCT INFORMATION

Composition	Portland cement, selected aggregates and special additives.
Packaging	25 kg bag.
Appearance and colour	White/Grey powder.
Shelf life	12 months from date of production.
Storage conditions	Undamaged original sealed packaging, in dry condition.

TECHNICAL INFORMATION

Tensile adhesion strength	Storage conditions	EN12004
	Initial	$\geq 1 \text{ N/mm}^2$
	Water immersion	$\geq 1 \text{ N/mm}^2$
	Heat ageing	$\geq 1 \text{ N/mm}^2$
	Open time (30 min.)	$\geq 0.5 \text{ N/mm}^2$
Slip resistance	$\leq 0.5 \text{ mm}$	(EN 12004)

APPLICATION INFORMATION

Mixing ratio	6-6.75 liters of water per 25 kg bag 24 - 27 %
Consumption	Consumption is always dependent on the substrate surface profile and roughness, as well as on the application technique (single adhesive layer on the substrate, or with an additional 'buttering' layer on the back of the tiles). As a guide: Notched trowel size Consumption Small 6 mm $\sim 2\text{-}3 \text{ kg/m}^2$ Medium 8 mm $\sim 3\text{-}4 \text{ kg/m}^2$ Large 10 mm $\sim 4.5\text{-}6.5 \text{ kg/m}^2$ The information above may only serve as a guideline. It is highly recommended to run a trial on site to determine the actual coverage and consumption per m^2 .
Layer thickness	3-10 mm
Ambient air temperature	+5 °C min. / +35 °C max.
Substrate temperature	+5 °C min. / +35 °C max.
Maturing time	$\sim 3 \text{ min}$

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

- If a waterproofing layer is required under the tiles, then use suitable waterproofing system under SikaCeram®-259 Plus IQ. Please refer to the respective Sika Product Data Sheets for more information.
- For any natural stones tiles always carry out a small test application first.
- SikaCeram®-259 Plus IQ must not be applied in the following situations:
 - On metal or wood surfaces.
 - On existing ceramic tiles outdoors.
- For any situations or applications not explicitly described in this Product Data Sheet.

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

- Substrates must be properly cured, structurally sound, free of any loose or friable particles, clean, dry and free of any contaminants such as dust, dirt, oil, grease, cement laitance or efflorescence.
- Depending on the substrate condition and contaminants to be removed from the surface, perform adequate preparation techniques, such as water-jet washing or blastcleaning, in order to remove all traces of any materials that could reduce the product's adhesion to the substrate.
- Any small surface defects and variations in level, profile, or around exposed aggregates for example, can be prefilled and levelled with an additional layer of SikaCeram®-259 Plus IQ, to a maximum thickness of 10 mm, applied at least 24 h before the tiling is laid. For larger and thicker areas of surface reprofiling and making good, appropriate mortars from the Sika MonoTop® or Sikafloor® Level range should be used. Cracks in substrates must be identified and sealed appropriately e.g. with Sikadur epoxy resins.
- When laying tiles on non-absorbent or substrates with limited absorbency, such as existing ceramic tiles, painted surfaces etc., check to confirm that these surfaces are all firmly and securely bonded and stable, then use suitable degreasing/decasing products to thoroughly and completely clean the surface.
- For applications in hot climates / environments and /

or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product application, but avoid any ponding / standing water on the surface, which must not be damp to touch and not with a dark-matt / wet surface appearance i.e. it must be saturated surface dry (SSD).

- For tiling in frequently damp or wet rooms, then a suitable Sika® waterproofing product / system should be applied before the tiling.

MIXING

Pour the recommended amount of clean water into a suitable, clean mixing container. While stirring slowly, add the SikaCeram®-259 Plus IQ powder slowly to the water and then mix thoroughly using a low speed (~500 rpm) electric mixer until a completely homogeneous and lump-free mix is achieved. After mixing, leave the material to stand and 'mature' for a 3-5 minutes, and then briefly stir again immediately prior to application for 15sec., The resulting mix has a very creamy consistency and is easy to apply and spread.

APPLICATION

- SikaCeram®-259 Plus IQ is applied using a notched trowel.
- Apply sufficient product to ensure complete 'wetting' of the backs of the tiles.
- Tiling must to be carried out on freshly applied adhesive, exerting adequate pressure to ensure complete and uniform contact with the adhesive and thus optimum bond. If a film is seen to form on the surface, the adhesive has been left for too long; should this happen, then immediately remove the adhesive layer with the trowels, discard this material and apply a fresh layer of SikaCeram®-259 Plus IQ adhesive.
- Avoid application in direct sunlight and/or strong wind / draughts.
- To lay any tiles larger than 900 cm² (e.g. 30×30 cm), the double-layer 'buttering' technique is always recommended.

CLEANING OF EQUIPMENT

Thoroughly clean all tools and equipment with clean water before the product has set, preferably immediately after use. Once hardened the product can only be removed by mechanical means.

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.

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PRODUCT DATA SHEET

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