

PRODUCT DATA SHEET

SikaCeram®-255 Easy S1 ET

Powder deformable adhesive for large-size ceramic tiles, creamy consistency

DESCRIPTION

SikaCeram®-255 Easy S1 ET is a cement-based, improved, deformable, improved, deformable powder adhesive for ceramic tiles, even in large size. It can be laid up to a thickness of 10 mm. SikaCeram®-255 Easy S1 ET is suitable for laying ceramic tiles indoors and outdoors in residential and medium-load areas. CE marked according to EN 12004 class C2 TE S1.

USES

SikaCeram®-255 Easy S1 ET is suitable for bonding the following types of tiles:

- All kind of ceramic tiles, even large-sized
- SikaCeram®-255 Easy S1 ET can be used indoors and outdoors for floor and wall applications, on the following substrates surfaces:
- Gypsum and cement based substrates,
 - Plasterboard,
 - Existing ceramic tiles and stones indoor,
 - Well-adhered resilient flooring (excluding polyolefin coverings)

SikaCeram®-255 Easy S1 ET is suitable for high performance and demanding applications, such as:

- Swimming pools,
- Water heating screeds,
- Balconies and terraces,
- Spot-glueing insulating panels made of polystyrene, polyurethane foam, rock or glass wool.

FEATURES

- Easy to apply, creamy consistency
- Deformable
- No vertical slip
- Extended open time
- Frost resistant

SUSTAINABILITY

IBU Environmental Product Declaration (EPD) available

CERTIFICATES AND TEST REPORTS

Improved cementitious deformable adhesive with reduced slip and extended open time classified C2 TE S1 according to EN 12004, provided with CE marking.

PRODUCT INFORMATION

Composition	Portland cement, selected aggregates, water retention additives, polymer re-dispersible.	
Packaging	25kg bag	
Appearance and colour	Grey Powder	
Shelf life	12 months from date of production	
Storage conditions	The product must be stored properly in undamaged original sealed packaging, in dry and cool conditions.	
Product declaration	C2 TE S1	(EN 12004)
Maximum grain size	Dmax: 0.5 mm	

TECHNICAL INFORMATION

Tensile adhesion strength	Initial	$\geq 1.0 \text{ N/mm}^2$	(EN 12004)
	Water immersion	$\geq 1.0 \text{ N/mm}^2$	
	Heat ageing	$\geq 1.0 \text{ N/mm}^2$	
	Freeze-thaw cycles	$\geq 1.0 \text{ N/mm}^2$	
Slip resistance	$\leq 0.5 \text{ mm}$ All data collected from test reports released by laboratory Modena Centro Prove, Notified Body 1599.		(EN 12004)
Transverse deformation	$\geq 2.5 \text{ mm}$		(EN 12002)

APPLICATION INFORMATION

Mixing ratio	6.75 - 7.25 litres of water per 25kg bag 28% $\pm$ 1%													
Consumption	Consumption is always dependent on the substrate surface profile and roughness, by the size of the tiles and the joints, 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 in case of dimensions greater than 30x30 cm). As a guide: <table><tr><th>Size of tiles</th><th>Notched trowel size</th><th>Consumption</th></tr><tr><td>Small</td><td>6 mm</td><td>~ 3 kg/mm²</td></tr><tr><td>Medium</td><td>8 mm</td><td>~ 4 kg/mm²</td></tr><tr><td>Large</td><td>10 mm</td><td>~ 5 kg/mm²</td></tr></table>		Size of tiles	Notched trowel size	Consumption	Small	6 mm	~ 3 kg/mm ²	Medium	8 mm	~ 4 kg/mm ²	Large	10 mm	~ 5 kg/mm ²
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Small	6 mm	~ 3 kg/mm ²												
Medium	8 mm	~ 4 kg/mm ²												
Large	10 mm	~ 5 kg/mm ²												
Layer thickness	10 mm max.													
Ambient air temperature	+5°C min. / +35°C max.													
Substrate temperature	+5°C min. / +35°C max.													
Maturing time	~ 3 min													
Pot Life	~ 6 hours													
Open Time	$\geq 0.5 \text{ N/mm}^2$ after 30 min													
Curing treatment	Protect from adverse weather conditions, such as extremely high or low (freezing) temperatures, rain, direct exposure to sun, for at least 12–24 hours from application.													
Applied product ready for use	Use	Waiting Time												
	Grouting on floors / walkability	24 - 36 hours												
	Grouting on walls	4 - 6 hours												
	Full traffic / use	~ 14 days												
	Filling with water	~ 21 days												
Values determined at laboratory conditions: 23°C $\pm$ 2°C, R.H. 50% $\pm$ 5%. Higher temperatures will reduce the indicated waiting time; lower temperatures increase them.														
Adjustability time	~ 50 min													

SYSTEM INFORMATION

System structure	For very absorbent substrate and in the following cases it is necessary to use a primer:
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Substrate	Primer
Gypsum plaster or anhydrite screed	Sika® Primer-11 W+
Existing ceramic tiles, Well-adhered resilient flooring (excluding polyolefin coverings)	Sika® Primer-21 W+

Application and consumption details of the primers are given in the respective Product Data Sheets.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- Gypsum plaster substrates must have a maximum moisture content of 0.5%.
- If a waterproofing layer is required under the tiles, then cement and/or acrylic-based systems are suitable for use under SikaCeram®-255 Easy S1 ET. Please refer to the respective Sika Product Data Sheets for more information.
- Suitable for laying natural stones not sensitive to water and staining, always perform a test application first.

SikaCeram®-255 Easy S1 ET must not be applied in the following situations:

- On metal or wood surfaces.
- On existing ceramic tiles outdoors.
- For any situation or application 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 / PRE-TREATMENT

- Substrate must be perfectly flat, solid, dimensionally stable, free of any loose or friable particles, non-deformable, clean, dry and free of any contaminants such as dust, dirt, oil, grease, cement laitance or efflorescence, old coatings and other surface treatments.
- 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®-255 Easy S1 ET, to a maximum thickness of 5 mm, applied at least 24 h before laying the ceramic 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/descaling products to thoroughly and completely clean the surface. Is recommend use of the primer Sika® Primer-21 W+.
- 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 water into a suitable, clean mixing container. Whilst stirring slowly, slowly add the SikaCeram®-255 Easy S1 ET powder 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 few minutes, and then briefly stir again immediately prior to application. The resulting mix has a very creamy consistency and is easy to apply and spread.

APPLICATION

- SikaCeram®-255 Easy S1 ET 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®-255 Easy S1 ET adhesive.
- Avoid application in direct sunlight and/or strong wind / draughts.
- To lay any tiles larger than 900 cm² (e.g. 30×30 cm), use double-layer application.

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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.

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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