

PRODUCT DATA SHEET

SikaCeram[®]-255 Easy S1

POWDER DEFORMABLE ADHESIVE FOR CERAMIC TILES OF LARGE SIZE, CREAMY CONSISTENCY

DESCRIPTION

SikaCeram[®]-255 Easy S1 is a cement-based, deformable, improved powder adhesive for ceramic tiles, even in large-sized. It can be used in layers up to 10 mm thick. SikaCeram[®]-255 Easy S1 is suitable for tiling on both walls and floors inside and outside of residential properties, medium load. Suitable for use in hot and tropical climatic conditions.

USES

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

- All kind of ceramic tiles, even large-sized SikaCeram[®]-255 Easy S1 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
- Old PVC, linoleum and vinyl floors indoor.

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

- Swimming pools
- 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 slipping
- Extended open time
- Frost resistant

CERTIFICATES AND TEST REPORTS

SikaCeram[®]-255 Easy S1 follows the main requirements of EN 12004, class C2 TE S1

PRODUCT INFORMATION

Composition	Portland cement, selected aggregates, water retention additives and redispersible polym
Packaging	25 kg bag
Appearance and colour	Grey & White 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. Protect from direct sunlight, heat and moisture.

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	$\leq 0.5 \text{ mm}$	(EN 12004)	
Transverse deformation	$\geq 2.5 \text{ mm}$	(EN 12002)	

APPLICATION INFORMATION

Mixing ratio	~6 - 6.75 litres of water per 25 kg bag (24-27% of cement content)		
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:		
	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 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	~1 hour		
Open Time	$\geq 0.5 \text{ N/mm}^2$ after 30 min	(EN 12004)	
Curing rate	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 ± 2°C; R.H. 50 % ± 5 %. Higher temperatures will reduce the indicated waiting time, lower temperatures increase them.		

SYSTEM INFORMATION

System structure

For very absorbent substrate and in the following cases it is necessary to use a primer:

Substrate	Primer
Gypsum plaster or anhydrite screed	SikaLatex®-100 P QA
Existing ceramic tiles, PVC sheet, linoleum and vinyl tiled floors	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 Product 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. 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 QA 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

be prefilled and levelled with an additional layer of SikaCeram®-255 Easy S1, 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 re-profiling 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 sur

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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

faces are all firmly and securely bonded and stable, then use suitable degreasing/descaling products to thoroughly and completely clean the surface. It is recommended to 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 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 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 adhesive.
- Avoid application in direct sunlight and/or strong wind / draughts. ▪ To lay any tiles larger than 900 cm² (e.g. 30x30 cm), the double-layer gluing method is 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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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