

PRODUCT DATA SHEET

SikaCeram[®]-250 StarFix Rapid

Fast-setting, flexible tile adhesive

PRODUCT DESCRIPTION

Fast-setting, highly dust-reduced, flexible, high-yield tile adhesive for the thin-bed method of class EN 12004 C2 FTE S1.

USES

- Ceramic tiles and slabs (mainly porcelain stoneware)
- Large format tiles
- Can be used on floors and walls
- Interior and exterior
- Insulation and finishing tiles
- Suitable for heated screeds

CHARACTERISTICS / ADVANTAGES

- Fast setting
- Deformable

- Pliable, easy to apply
- Highly dust reduced
- Sturdy
- High early strength
- Frost resistant
- Extended open time

ENVIRONMENTAL INFORMATION

- EMICODE EC1^{PLUS}: Very low emission
- IBU Environmental Product Declaration (EPD)

APPROVALS / STANDARDS

CE Marking and Declaration of Performance to EN 12004: Adhesives for tiles in the form of cementitious adhesives intended for use in all internal and external tiling - class C2 FTE S1

PRODUCT INFORMATION

Chemical Base	Cementitious, polymer-modified mortar		
Packaging	Bag:	20 kg	
	Pallet:	42 x 20 kg (840 kg)	
	Refer to the current price list for available packaging variations.		
Appearance / Colour	Grey		
Shelf Life	In unopened original container:		
	4 kg (PE aluminium bag):	12 months from date of production	
	20 kg (paper bag):	6 months from date of production	
Storage Conditions	Storage temperature between +5 °C and +35 °C. Store in a dry place. Opened containers must be closed immediately.		
Product Declaration	C2 FTE S1	(EN 12004)	
	C2 FE S2	(By adding a dispersion component, see mixing ratio)	

TECHNICAL INFORMATION

Tensile adhesion strength	Dry storage:	$\geq 1.00 \text{ N/mm}^2$	(EN 1348, 8.2)
	Water storage:	$\geq 1.00 \text{ N/mm}^2$	(EN 1348, 8.3)
	Hot storage:	$\geq 1.00 \text{ N/mm}^2$	(EN 1348, 8.4)
	Freeze/thaw storage:	$\geq 1.00 \text{ N/mm}^2$	(EN 1348, 8.5)
Reaction to Fire	Class E		
Thermal Resistance	Min. -20 °C, max. +80 °C		
Slip resistance	$\leq 0.5 \text{ mm}$		(EN 1308)
Transverse deformation	Class S1:	$\geq 2.5 \text{ mm}$	(EN 12002)

APPLICATION INFORMATION

Mixing Ratio	5,6 l of water per 20 kg bag		
Consumption	The material consumption depends on the condition of the substrate, the type of ceramic material to be processed and the application technique. The following values may therefore vary slightly in practice:		
	Notched trowel	Consumption	
	6 mm	~ 2.0 kg/m²	
	8 mm	~ 2.5 kg/m²	
	10 mm	~ 3.0 kg/m²	
Layer Thickness	Max. 10 mm		
Ambient Air Temperature	Min. +5 °C, max. +35 °C		
Substrate Temperature	Min. +5 °C, max. +35 °C		
Pot Life	~ 45 minutes	(+20 °C, 50 % r.h.)	
Open Time	~ 30 minutes	(+20 °C, 50 % r.h.)	
Applied Product Ready for Use		Interior	Exterior
	Walkable:	~ 3 hours	~ 3 hours
	Groutable:	~ 3 hours	~ 48 hours
	Fully loadable:	~ 7 days	~ 7 days
Fresh mortar density	~ 1.04 kg/l		

SYSTEM INFORMATION

System Structure	SikaCeram®-250 StarFix Rapid is compatible with Sika® waterproofing products. For porcelain stoneware tiles in exterior areas, use a SikaCeram® adhesive of class C2 S2 (EN 12004). For grouting, use suitable grouts from the SikaCeram® line. For swimming pool and spa applications, please contact the local Sika technical service.		
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VALUE BASE

on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

All technical data stated in this Data Sheet are based

LIMITATIONS

During setting, protect the tile adhesive from sunlight, draughts, frost, driving rain and high room temperatures (> +25 °C).

Movement joints in the substrate must be formed in the covering as well.

The technical data refer to +20 °C and 50 % r.h. Lower temperatures extend, higher temperatures shorten the stated values.

SikaCeram®-250 StarFix Rapid must **not** be applied in the following cases:

- On metal or wood surfaces
- On old ceramic tiles outdoors

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be solid, load-bearing and free of cracks. Low-strength, non-load-bearing surface layers, extremely dense and/or smooth substrates, cement slurries, separating layers (e.g. dirt, dust, grease, oil, paint residues, etc.) must be removed and/or roughened.

The substrate must comply with the relevant standards, codes of practice and guidelines. The following primers must be used:

Normal absorbent cement- and calcium sulphate-bound substrates

- Sikafloor®-01 Primer

Non absorbent (smooth) substrates (e.g. old coverings)

- Sikafloor®-02 Primer

Critical substrates

- Sand Sika® Primer MB in excess (e.g. Sika® quartz sand 0.3-0.9 mm).

Spot unevenness can be levelled with SikaCeram®-250 StarFix Rapid up to a layer thickness of 10 mm, at least 24 hours before the tiles and slabs are laid. For greater layer thicknesses, mortars from the Sika MonoTop® or Sika® Level range should be selected.

MIXING

In a clean container, mix with cold tap water for 3 minutes, lump-free and homogeneous. Use of a mixer with 600 rpm is recommended.

Do not mix more material than can be used within the pot life.

APPLICATION

Apply SikaCeram®-250 StarFix Rapid with a suitable notched trowel on the substrate, depending on the field of application or tile format also on the back of the tile (buttering/floating method).

Only apply as much mortar as ceramic tiles etc. can be inserted into the fresh mortar bed within the open time. Do not moisten the mortar bed with water.

Apply enough mortar so that the back of the tiles is wetted over the entire surface. Push the panels into the mortar bed and press them into place.

CLEANING OF TOOLS

Clean tools with water immediately after use. Cured material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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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