

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-250 StarFix White

White cementitious normal setting floor and wall tile adhesive

### PRODUCT DESCRIPTION

SikaCeram<sup>®</sup>-250 StarFix White is a white cementitious, normal setting, deformable, frost resistant floor and wall tile adhesive with reduced slip and extended open time. For residential, industrial and commercial wet and dry environments. Suitable for bonding all types of ceramic, marble, natural stone and mosaic tiles to all types of absorbent / non – absorbent construction material substrates. Layer thickness <5,0 mm. Indoor and outdoor use. EN 12004: Classification - C2 TE S1

### USES

#### Bonding the following types of tiles:

- Ceramic
- Earthenware
- Mosaic
- Glazed
- Marble and other natural stones
- Porcelain
- Stoneware
- Terrazzo
- Unglazed

#### Bonding tiles for the following applications:

- Balconies
- Bathrooms
- Commercial / Residential environments
- Existing indoor floor tiles
- Heated floors
- Kitchens
- Leisure centres
- Shopping malls
- Storage areas
- Swimming pools
- Terraces
- Wet areas

### CHARACTERISTICS / ADVANTAGES

- White
- Deformable
- Extended open time
- Frost resistant
- Smooth application
- Water resistant
- Typical bonding substrates: Anhydrite, cementitious, ceramic, clay, glazed, gypsum, painted, vinyl tile/sheet

### ENVIRONMENTAL INFORMATION

- VOC emission classification GEV-Eimcode EC1<sup>PLUS</sup>, license number 8436/24.02.97

### APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 12004 – Adhesives for Tiles

## PRODUCT INFORMATION

Product Declaration	EN 12004: C2 TE S1
Chemical Base	Portland cement, selected aggregates, water retention additives, re-dispersible polymer
Packaging	25 kg bag
Shelf Life	12 months from date of production
Storage Conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to packaging.
Appearance / Colour	White powder

## TECHNICAL INFORMATION

Transverse deformation	_____	≥ 2,5 mm	(EN 12002)
Tensile adhesion strength	Initial	≥ 1 N/mm <sup>2</sup>	(EN 1348)
	Water immersion	≥ 1 N/mm <sup>2</sup>	
	Heat ageing	≥ 1 N/mm <sup>2</sup>	
	Freeze-Thaw cycles	≥ 1 N/mm <sup>2</sup>	
Slip resistance	≤ 0,5 mm		(EN 1308)

## SYSTEM INFORMATION

System Structure	<b>Primers</b>	
	Absorbent substrates - cementitious screed, cementitious plaster, concrete	Sika® Primer-11W+ (1:3) Sikafloor®-01 Primer (1:3) Sikafloor®-03 Primer
	Non and partly absorbent substrates - existing ceramic tiles, linoleum, existing vinyl tiled floors	Sika® Primer-21W Sikafloor®-02 Primer
	Calcium sulfate substrate (gypsum, gypsum fiberboards, calcium sulfate screed)	Sika® Primer-11W+ (1:1) Sikafloor®-01 Primer (1:1) Sikafloor®-03 Primer
	<b>Tile Adhesive</b>	
	Tile Adhesive	SikaCeram®-250 StarFix White
	<b>Ancillary products for waterproofing wet areas</b>	
	Waterproofing layer	Sikalastic® Waterproofing
	Waterproofing tapes	Sika® SealTapes

## APPLICATION INFORMATION

Mixing Ratio	7,5 litres of water (30 % ± 1 %) per 25 kg bag.		
Fresh mortar density	~1,6 kg/l		
Consumption	Consumption is dependent on the substrate, surface profile, roughness and application technique.		
	As a guide for a single adhesive layer :		
	<b>Size of tiles</b>	<b>Notched Trowel size</b>	<b>Consumption</b>
	Small	6 mm	~ 2,3 kg/m <sup>2</sup>
	Medium	8 mm	~ 2,7 kg/m <sup>2</sup>
Large	10 mm	~ 3,5 kg/m <sup>2</sup>	

<b>Layer Thickness</b>	5 mm max.	
<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>	~ 4 hours at +20°C	
<b>Open Time</b>	≥ 0,5 N/mm <sup>2</sup> after 30 min	(EN 1346)
<b>Applied Product Ready for Use</b>	<b>Ready for grouting</b>	<b>Waiting time</b>
	Inside including foot traffic	24 hours
	Outside	48 hours

## VALUE BASE

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

## LIMITATIONS

- Gypsum plaster and anhydrite screed substrates must have a maximum moisture content of 0,5 %.
- If a waterproofing layer is required under the tiles, cement-based and acrylic-based products are suitable for use under SikaCeram®-250 StarFix White.
- For natural stone tiles always carry out a small test application first.
- Avoid application in direct sunlight and/or strong wind / draughts.
- Do not apply on metal or wood surfaces
- Do not apply on existing ceramic tiles outdoors.
- Do not add anything to the product that is not specified in this Product Data Sheet.
- Do not use for any applications not explicitly described in this Product Data Sheet.

## 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

- Cementitious substrates must be sufficiently cured and dried (2–6 weeks), All substrates must be structurally sound, able to support the weight of the new tiling and provide a stable and securely fixed background. Surfaces shall be clean, dry, free of any loose or friable particles, contaminants such as dust, dirt, oil, wax, polish grease, cement laitance or efflorescence
- Depending on the substrate condition and contaminants to be removed from the surface, use adequate preparation techniques to remove all traces of any materials that could reduce the product's adhesion

to the substrate. Smooth surfaces should be roughened lightly to improve adhesion. To confirm adequate surface preparation and coating adhesion, carry out a small trial before full application.

- Any small surface defects and variations in level, profile, or around exposed aggregates can be prefilled and levelled with an additional layer of SikaCeram®-250 StarFix White to a maximum thickness of 5 mm, applied at least 24 hrs before full adhesive application. For larger and thicker areas of surface reprofiling and making good, use appropriate mortars from the Sika MonoTop® or Sikafloor® Level range. Cracks in substrates must be identified and sealed appropriately e.g. with Sikadur epoxy resins.
- For applications in hot climates / environments, or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to product application. Avoid any ponding / standing water on the surface. Surface must not be damp to touch.
- For tiling in constantly damp or wet rooms, a suitable Sika® waterproofing product / system should be applied to the substrate before tiling.

### MIXING

- Pour the recommended amount of clean cold water into a suitable, clean mixing container.
- Slowly add SikaCeram®-250 StarFix White powder to the water and then mix thoroughly using a low speed (< 500 rpm) drill mixer until the material is fully mixed and lump free. Avoid entraining air into the mix by over mixing.
- Allow the product to 'mature' for 2–3 minutes before remixing for 30 seconds.
- The finished mix has a creamy consistency, uniformly coloured and is easy to apply and spread.

### APPLICATION

- SikaCeram®-250 StarFix White is applied using a suitable notched trowel .
- Apply sufficient product to ensure adequate 'wetting' of the backs of the tiles. Coverage on the back of the tiles should be 100 %.
- Tiling must be carried out on freshly applied adhesive, exerting adequate pressure to ensure complete and uniform contact with the adhesive for optimum bond.
- If a skin forms on the surface of the adhesive, immediately remove the adhesive layer with the trowel, discard material and apply a fresh layer of SikaCeram®-250 StarFix White adhesive.

- Adjust tiles if required.
- Clean off surplus adhesive from tile face and between tile joints before the adhesive has dried.
- After the required waiting time apply the appropriate grout into the tile joints.
- SikaCeram®-250 StarFix White is suitable for laying absorbent and non-absorbent tiles indoors without any size or support limits.
- On cementitious substrates, SikaCeram®-250 StarFix White is ideal for laying non-absorbent tiles outdoors up to 10 000 cm<sup>2</sup> (e.g. 60 × 120 cm) on non-heated floors and up to 7000 cm<sup>2</sup> (e.g. 80 × 80 cm) on walls.
- Large tiles > 900 cm<sup>2</sup> (e.g. 30 × 30 cm), the double-spreading (buttering) technique is always recommended.

#### CLEANING OF TOOLS

Clean all tools and application equipment after use with water. Hardened and/or 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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