

PRODUCT DATA SHEET

SikaCeram[®]-355 StarPaste

Ready to use paste tile adhesive for walls

PRODUCT DESCRIPTION

SikaCeram[®]-355 StarPaste is a ready to use paste tile adhesive for walls with improved adhesion to lay large sized ceramic tiles. Specifically formulated for use in bathrooms and kitchens. Layer thickness ≤ 5,0 mm. Indoor use. EN 12004 classification D2 TE.

USES

Bonding the following types of tiles:

- All kind of ceramic tiles
- Glass mosaic
- Marble and other natural stone not sensitive to discoloration

Bonding tiles for the following applications:

- Slightly wet (French Standard EA).
- Medium-wet (French Standard EB): kitchens, bathrooms, residential heated cellars, class rooms
- Wet (French Standard EB+): public and commercial bathrooms, washing rooms, etc. water jet cleaning up to 10 bar pressure.

PRODUCT INFORMATION

Product Declaration	EN 12004: D2TE
Chemical Base	Organic polymers, selected aggregates, water retention agents and additives
Packaging	8 kg container
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 +30 °C. Always refer to packaging.
Appearance / Colour	White paste
Maximum Grain Size	D _{max} : 0,2 mm
pH-Value	8

CHARACTERISTICS / ADVANTAGES

- Ready to use
- No vertical slip, high slump resistance and grab
- Typical bonding substrates: Gypsum, cementitious, wood, painted, tiled
- Extended open time
- Indoor use
- No priming required

APPROVALS / STANDARDS

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

TECHNICAL INFORMATION

Lap Shear Strength	Initial	$\geq 1,5 \text{ mm}^2$	(EN 1324)
	Water immersion	$\geq 0,5 \text{ mm}^2$	
	Heat ageing	$\geq 2,0 \text{ mm}^2$	
	High temperature	$\geq 2,0 \text{ mm}^2$	
Slip resistance	$\leq 0,5 \text{ mm}$	(EN 1308)	

APPLICATION INFORMATION

Mixing Ratio	Ready to use product		
Fresh mortar density	~1,5 kg/l		
Consumption	Consumption is dependent on the substrate, surface profile, roughness, size of the tiles, the joints between them and application technique. As a guide for a single adhesive layer:		
	Size of tiles	Notched trowel size	Consumption
	Small	3 mm	~1,5 kg/m ²
	Medium	4 mm	~1,6 kg/m ²
Large	6 mm	~2,5 kg/m ²	
Layer Thickness	5 mm max.		
Ambient Air Temperature	+5 °C min. / +30 °C max.		
Substrate Temperature	+5 °C min. / +30 °C max.		
Maturing time	Not required, ready-to-use product		
Open Time	$\geq 0,5 \text{ N/mm}^2$ after 30 min.	(EN 1346)	
Curing Time	24–36 hours.		
Adjustability Time	~20 min.		
Applied Product Ready for Use	Use	Waiting time	
	Grouting on walls	24–36 hours.	
Values obtained in laboratory conditions: 23 °C ± 2 °C, R.H. 50 % ± 5 %. Higher temperatures will reduce the indicated waiting time, lower temperatures increase them.			

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 substrates must have a maximum moisture content of 0,5 %.
- If a waterproofing layer is required under the tiles, then cement-based and acrylic-based systems are suitable for use under SikaCeram®-355 StarPaste. Refer to the individual Sika Product Data Sheet.
- For natural stone tiles always carry out a preliminary test application first.
- Avoid application in direct sunlight and/or strong wind / draughts.
- Do not apply on metal surfaces.
- Do not apply outdoors.

- Do not add anything to the product.
- Do not use for any applications not explicitly described in this Product Data Sheet.
- Refer to tile manufacturer's instructions for guidance on providing expansion joints

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 must be clean, dry, free of any loose or friable particles, contaminants such as dust, dirt, oil, wax polish, grease etc.

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 adhesion, carry out a small trial before full application.

Any small surface defects and variations in level, profile, can be prefilled and levelled with an additional layer of appropriate mortars from the Sika MonoTop® range applied at least 24 hours before SikaCeram®-355 StarPaste application. Cracks in walls 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 these surfaces are all stable, firmly and securely bonded. Then use suitable degreasing/descaling products to thoroughly and completely clean the surface.

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 / systems should be applied to the substrate before tiling.

MIXING

SikaCeram®-355 StarPaste does not require any mixing. Once material has been used and exposed to the air, to maintain its workability it is recommended to mix occasionally with a trowel.

APPLICATION

SikaCeram®-355 StarPaste is applied using a suitable notched trowel.

Apply sufficient adhesive to the prepared fixing surface with the appropriate trowel and comb to the required bed thickness. Apply sufficient product to ensure adequate 'wetting' of the backs of the tiles.

Tiling must to be carried out on freshly applied adhesive, exerting adequate pressure to ensure 100 % complete and uniform contact with the adhesive to achieve optimum adhesion.

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®-355 StarPaste 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.

The use of the product to lay tiles within the following limits is recommended:

Substrate	Ceramic (porosity < 6 %) Stones	Ceramic (porosity ≥ 6 %) Stones
	(porosity < 2 %)	(porosity ≥ 2 %)
Very absorbing	1200 cm ²	3600 cm ²
Absorbing	1200 cm ²	2200 cm ²
Wood	1200 cm ²	1200 cm ²
Non absorbing	-	1200 cm ²

- To lay tiles larger than 900 cm² (e.g. 30 × 30 cm), the double-spreading (buttering) method of application is recommended.

CLEANING OF TOOLS

Clean all tools and application equipment with water after use. Hardened 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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Product Data Sheet

SikaCeram®-355 StarPaste
June 2022, Version 01.01
02171020000000011

SikaCeram-355StarPaste-en-IE-(06-2022)-1-1.pdf

