

PRODUCT DATA SHEET

SikaCeram®-230 Marble and Stone

WHITE CEMENT BASED ADHESIVE FOR MARBLE AND STONE

DESCRIPTION

SikaCeram®-230 Marble and Stone is a white cement-based, improved, one-pack cementitious adhesive. Suitable for setting Marble and Stone on both floors and walls, inside and outside for residential and commercial, balconies and terraces.

USES

SikaCeram®-230 Marble and Stone is suitable for bonding the following types of tiles:

- Marble
- Natural Stone

SikaCeram®-230 Marble and Stone can be used indoors and outdoors, on floors and walls on the following substrate surfaces:

- Mortar plaster, Concrete
- Existing ceramic tiles, stones

FEATURES

- Alkali and stain/flex resistance
- Prevent yellowing
- Extended open time
- Smooth application
- White color
- Thixotropic

PRODUCT INFORMATION

Composition	White cement, selected aggregates, water retention additives		
Packaging	25 kg bag		
Appearance and colour	White powder		
Shelf life	9 months from date of production		
Storage conditions	If stored properly in original, unopened and undamaged sealed packaging, in dry and cool conditions		
Density	~1.6 kg/l (fresh mortar)		
Maximum grain size	Dmax : 0.42 mm		

TECHNICAL INFORMATION

Tensile adhesion strength	28 days	~1.0 N/mm ²	(EN 1348)
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APPLICATION INFORMATION

Mixing ratio	Water : SikaCeram®-230 Marble and Stone	6.25 - 6.75 L : 25 kg (by weight)
	(as per consistency requirement)	

Consumption

Consumption is always dependent on the substrate surface profile and roughness, the size of the tiles and the joints between them, 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). As a guide:

Size of Marble and Stone	Notched trowel	Consumption
≥ 60 cm x 60 cm*	size 10 mm square	~10 kg/m ²
< 60 cm x 60 cm**	size ~8 or 10 mm square	~5 kg/m ²

Note :

* Method : additional buttering, 2 sides application

** Method : single adhesive layer, 1 sides application

Layer thickness	5 - 6 mm	
Ambient air temperature	+5 °C min. / +35 °C max.	
Substrate temperature	+5 °C min. / +35 °C max.	
Maturing time	~3 minutes	
Pot Life	~1 hour	
Open Time	≥ 1 N/mm ² after 30 minutes (normal condition, interior)	(EN 1346)
Curing time	24 – 36 hours	
Applied product ready for use	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.	
	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 %.		
Adjustability time	~30 minutes (normal condition, interior)	

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

- If a waterproofing layer is required under the tiles then cementitious waterproof system are suitable for use under SikaCeram®-230 Marble and Stone. Please refer to the respective Sika Product Data Sheets for more information
 - For any natural marble and stone tiles always carry out a small test application first
- SikaCeram®-230 Marble and Stone must not be applied in the following situations:
- On metal or wood surfaces
 - On existing ceramic tiles outdoors
 - For any situations or applications not explicitly described in this Product Data Sheet

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Higher temperatures/exterior will reduce the indicated open time, waiting time, pot life
- Substrates must be SSD, properly cured, structurally sound, free of any loose or friable particles, clean, dry and free of any contaminants such as dust, dirt, oil, grease, cement laitance or efflorescence
- 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®-230 Marble and Stone, to a maximum thickness of 15 mm, applied at least 24 hours before 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. Use primer if necessary
- 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 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®-230 Marble and Stone powder to the water and then mix thoroughly using a low speed (~300-600 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®-230 Marble and Stone is applied using a notched trowel
- Apply sufficient product to ensure complete 'wetting' of the back of the tiles
- Tiling must to be carried out on freshly applied adhesive, applying 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®-230 Marble and Stone adhesive
- Avoid application in direct sunlight and/or strong wind/draughts
- SikaCeram®-230 Marble and Stone is suitable for laying absorbent and non-absorbent tiles indoors without any size limits. Use support if necessary
- To lay any tiles larger than 1 500 cm² (50 x 50 cm), the double-spreading (buttering) technique is always recommended

CLEANING OF EQUIPMENT

Thoroughly clean all tools and equipments 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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