

PRODUCT DATA SHEET

SikaCeram®-255 Big Slab PK

Cement base,deformable, C2TES1 thin set tile adhesive for large format tiles and slabs.

DESCRIPTION

SikaCeram®-255 Big Slab PK is a cement-based, improved,deformable, one-pack cementitious adhesive.Suitable for setting big slab with extended open time or large format tiles/marbles on both floors and walls,inside and outside for residential and commercial, balconies and terraces.

USES

SikaCeram®-255 Big Slab PK is suitable for bonding the following types of tiles:

- All kinds of granite tiles, poecelain, vitrified tiles, marbles.
- In large size and in thin slabs

SikaCeram®-255 Big Slab PK can be used indoors and outdoors,on floors and walls on the following substrate surfaces:

- Mortar plaster, Concrete
- Existing ceramic tiles, stones

SikaCeram®-255 Big Slab PK is suitable for high performance and demanding applications, such as:

- Industrial and heavy traffic floors
- Shoping malls
- Balconies and terraces.

CHARACTERISTICS / ADVANTAGES

- Deformability
- Reduced vertical slipping
- Extended open time
- Smooth application

APPROVALS / STANDARDS

Improved deformable cementitious adhesive with reduced slip and extended open time classified C2TE S1 according to EN12004.

PRODUCT INFORMATION

Chemical Base	Portland cement, selected aggregates, water retention additives.
Packaging	25 kg
Appearance / Colour	Grey powder
Shelf Life	6 months from date of production.
Storage Conditions	If stored properly in original, unopened and undamaged sealed packaging, in dry and cool conditions.
Maximum Grain Size	Dmax : 0.42

Tensile Adhesion Strength	<div><div><div>▪ Initial</div><div>▪ Water immersion</div><div>▪ Heat ageing</div><div>▪ Freez and Thaw</div></div><div><div>≥ 1.0 N/mm2</div><div>≥ 1.0 N/mm2</div><div>≥ 1.0 N/mm2</div><div>≥ 1.0 N/mm2</div></div></div> <div>(EN 1348)</div>										
Slip Resistance	≤ 0.5 mm (T) (EN1308)										
Transverse deformation	≥ 2.5 mm, < 5 mm (S1) <div>(EN 12002)</div>										
Mixing Ratio	Water : <u>SikaCeram®-255 Big Slab PK</u> (as per consistency requirement) <div><u>± 7.75 L : 25 kg (by weight)</u></div>										
Consumption	<p>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).</p> <p>As a guide:</p> <p>Note :</p> <p>* Method : additional buttering, 2 sides application</p> <p>** Method : single adhesive layer, 1 sides application</p>										
Layer Thickness	± 6 mm (Big Slab adhesive)										
Ambient Air Temperature	+5 °C min. / +35 °C max.										
Substrate Temperature	+5 °C min. / +35 °C max.										
Maturing time	~3 min										
Pot Life	~1 hour										
Open Time	≥ 1 N/mm² after 30 min (normal condition, interior) (EN 1346)										
Curing Time	<p>24–36 hours</p> <p>Curing Treatment</p> <p>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.</p>										
Applied Product Ready for Use	<table><tr><td>Use</td><td>Waiting time</td></tr><tr><td>Grouting on floors / walkability</td><td>24–36 hours</td></tr><tr><td>Grouting on walls</td><td>4–6 hours</td></tr><tr><td>Full traffic /</td><td>use ~14 days</td></tr><tr><td>Filling with water</td><td>~21 days</td></tr></table> <p>▪ Values determined at laboratory conditions: +23 °C ± 2 °C, R.H. 50 % ± 5 %.</p>	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
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										
Adjustability Time	~30 min (normal condition, interior)										
Fresh mortar density	~1.6 kg/l										

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.

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®-255 Big Slab PK, to a maximum thickness of 15 mm, applied at least 24 h 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.

APPLICATION

SikaCeram®-255 Big Slab PKb 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®-255 Big Slab PK adhesive. Avoid application in direct sunlight and/or strong wind / draughts.

SikaCeram®-255 Big Slab PK is suitable for laying absorbent and non-absorbent tiles indoors without any size limits. Use support if necessary.

To lay any tiles larger than 1500 cm² (e.g. 50 x 50cm), the double-spreading (buttering) technique is always recommended.

CLEANING OF TOOLS

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.

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.

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.

Sika Pakistan (Pvt.) Limited

141-CCA Phase IV, DHA

Lahore Punjab 54792

Pakistan

phone: +92 42 3569 4266 - 67

fax: +92 42 3569 4268

<http://pak.sika.com/>

Product Data Sheet

SikaCeram®-255 Big Slab PK

October 2026, Version 01.01

021710102000266640

SikaCeram-255BigSlabPK-en-PK-(10-2026)-1-1.pdf