

## PRODUCT DATA SHEET

# SikaCeram<sup>®</sup>-252 StarFlex

High performance cementitious adhesive with variable consistency for the installation of medium to large format ceramic tiles.

### DESCRIPTION

SikaCeram<sup>®</sup>-252 StarFlex is a cementitious adhesive of variable consistency, deformable, high-performance single-component, ready for use with the addition of water only, for the installation of ceramic tiles.

Fluid consistency classification C2ES1 according to EN 12004

Thixotropic consistency with classification C2TES1 according to EN 12004

### USES

SikaCeram<sup>®</sup>-252 StarFlex is suitable for the adhesion of the following types of tiles:

- Porcelain stoneware
- Low-absorption parts
- Cellular glass plates
- Laying of natural stone
- Placement of vitreous mosaic
- Laying of large-format ceramics
- In underfloor heating
- Swimming pools
- Heavy traffic floors
- Sticking of new ceramics on old ones

SikaCeram<sup>®</sup>-252 StarFlex is used on the following substrates:

- Mortar or concrete and brick provided they have good flatness.
- Plaster and plasterboard
- Anhydrite substrates
- Sticking of new ceramics on old ones

SikaCeram<sup>®</sup>-252 StarFlex can be used in interior and exterior walls and floors

### CHARACTERISTICS / ADVANTAGES

Excellent adhesion on poorly absorbent substrates

- Easy to use with excellent workability and thixotropic consistency, Class T
- Prolonged open time, Class E
- High deformability Class S1
- Low dust emission

### APPROVALS / STANDARDS

Conforms to CE marking tests by Aidico, Spain. Marked C2TES1. Applus with No. 12/5921-207-S

High performance cementitious adhesive for laying ceramic tiles outdoors according to CE 12004:2007, with declaration of performance 4445831124 with production certificate according to the notifying body CPR 0370.

### PRODUCT INFORMATION

<b>Chemical Base</b>	Polymer-modified cementitious mortar.
<b>Packaging</b>	25 kg bags
<b>Shelf Life</b>	12 months from the date of manufacture
<b>Storage Conditions</b>	Stored correctly in the original undamaged, sealed and sealed container in a cool, dry place.
<b>Appearance / Colour</b>	Grey powder and white powder

## TECHNICAL INFORMATION

Transverse deformation	≥2.5 < 5 N/mm <sup>2</sup> (According to EN 1348:2008)
Tensile Adhesion Strength	≥1 N/mm <sup>2</sup> (According to EN 1348:2008)
Slip Resistance	≤ 0.5 mm (According to EN 1308:2008)

## APPLICATION INFORMATION

Fresh mortar density	Grey: 1,53 kg/l (+20°C) White: 1.57 kg/l (+20°C)						
Consumption	It depends on the flatness and roughness of the support, the size of the platelets and the gluing technique (single or double gluing). As a guide in kilograms of powder per m <sup>2</sup> : <table><tr><td>Trowel</td><td>6x6 mm</td><td>10x10 mm</td></tr><tr><td>Consumption</td><td>3 Kg/m<sup>2</sup></td><td>5 Kg/m<sup>2</sup></td></tr></table>	Trowel	6x6 mm	10x10 mm	Consumption	3 Kg/m <sup>2</sup>	5 Kg/m <sup>2</sup>
Trowel	6x6 mm	10x10 mm					
Consumption	3 Kg/m <sup>2</sup>	5 Kg/m <sup>2</sup>					
Yield							
Layer Thickness	From 3 mm to 15 mm						
Ambient Air Temperature	+5°C min. / +35°C max.						
Mixing Ratio	Dry Consistency: White: ~7,25 l - 29% (+/- 1%) Grey: ~7,5 l -30% (+/-1%) Fluid Consistency:  White: ~ 9 l - 36% (+/- 1%) Grey: ~ 9,25 l - 37% (+/- 1%)						
Substrate Temperature	+5°C min. / +35°C max.						
Open Time	~ 30 minutes (+20° C)						
Adjustability Time	~ 45 minutes (+20° C)						
Applied Product Ready for Use	(A + 20° C and 50% Relative Humidity) Grouting time: Min. 24 hours Time for pedestrian traffic: Min. 24 hours Open to all types of traffic: Min. 7 days						

## 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.

## LIMITATIONS

- Cementitious substrates must be at least 28 days old.
- Do not exceed recommended water dosage. Apply only on healthy and prepared substrates. Do not exceed the maximum layer thickness.
  - Protect the applied material, even if fresh, from rain and frost.
  - It is not necessary to wet the ceramic pieces.
  - Before laying the tiles, check that the adhesive mortar has not formed a surface film that prevents good adhesion.
  - Do not place pieces that weigh more than 40 kg/m<sup>2</sup>. In these cases a mechanical anchorage must be fitted.

## ECOLOGY

For any information regarding safety issues in the use, handling, storage and disposal of chemical residues, users should consult the latest version of the product Safety Data Sheet, which contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### EQUIPMENT

SikaCeram®-252 StarFlex should be mixed mechanically using a mixer or in a clean container using a drill and mixing paddle (<500 rpm). Do not use a concrete mixer.

### SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be structurally sound, free of grout, clean and free of oil, grease, dirt, loose particles

and other contaminants.

Weak concrete and/or surface grout must be removed.

The substrate must be repaired by filling in irregularities and cokes using the appropriate products from the SikaTop, Sika® MonoTop or Sika® Rep ranges of materials or with an in-situ mortar improved with Sika® Latex. Allow 24 to 48 hours to elapse before laying the ceramic tiles.

Completely remove all dust and loose particles from the substrate before applying the product, preferably by brushing and/or vacuuming.

Deviations in the flatness of the substrate should be less than 5 mm, measured with a ruler 2 m. long. If necessary, the support will be leveled prior to application.

## MIXING

Mix thoroughly with clean water for a minimum of 3 minutes.

Leave the material in the container until most of the bubbles have disappeared (minimum 5 minutes). Then remix the material for 15 seconds - the product is now ready for use.

## APPLICATION

SikaCeram®-252 StarFlex is applied using the notched trowel on the support.

Choose a trowel that leaves the proper thickness on the back of the tile.

For guidance:

- For tiles up to 5x5cm, use a 3mm notched trowel.
- For normal ceramic pieces, use a 6 mm notched trowel.
- For large ceramic pieces, use a 9 mm notched trowel.
- For ceramic pieces larger than 900 cm<sup>2</sup> or for stringent requirements (tiles to be polished, heavy loads, etc.), the double gluing technique should be used.

On small surfaces apply a uniform layer of the recommended thickness of SikaCeram®-252 StarFlex on a trowel. Then immediately adjust the thickness using the notched trowel. Finally, place the ceramic piece, pressing strongly on the mortar. The tile surface in contact with the mortar will be greater than 80%.

## CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. The hardened/cured material can only be removed mechanically.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from

country to country. Please consult the local Product Data Sheet for the exact product data.

## 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.

### **Sika Taiwan Ltd.**

15F.-1, No. 83, Sec. 1, Nankan Rd.  
Luzhu District  
Taoyuan City 338207, Taiwan (R.O.C.)  
TEL: 03 352 8622 . FAX: 03 352 0470  
Info: sika@tw.sika.com  
web: twn.sika.com



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