

PRODUCT DATA SHEET

SikaCeram[®]-260 StarFlex

Flexible, multi consistency, high efficiency, highly dust reduced universal tile adhesive with lightweight fillers



PRODUCT DESCRIPTION

Multi consistency, cement-based, hydraulic-setting, highly deformable, consumption and for handling optimized tile adhesive with lightweight fillers for the thin-bed, middle-bed and thick-bed method up to 25 mm layer thickness.

Fulfills the C2 TE S1 requirements according EN 12004, C2 E S1 as flow-bed mortar.

USES

- Suitable for setting with thin-, middle-, tick- and flow-bed method of ceramic tiles, porcelain stoneware, stoneware tiles, earthenware tiles, cotto, split clinker flags and floor quarry, natural stones not sensitive to deformation and not sensitive to discoloration
- Large format tiles
- Permanent wet areas such as swimming pools
- Balconies, terraces and facades
- Industrial floors
- Heated floors
- Sika waterproofing systems, insulation and construction boards
- Overlaying existing indoor sound ceramic tiles or stones
- Suitable on all common substrates (consider use of primer)
- On floors and walls
- Indoor and outdoor

PRODUCT INFORMATION

| | | |
|----------------------|---|-----------------------|
| Chemical Base | Cementitious, polymer-modified mortar | |
| Packaging | Bag: | 25 kg |
| | Pallet: | 42 x 25 kg (1 050 kg) |
| Shelf Life | In unopened original packaging: 12 months from date of production | |

CHARACTERISTICS / ADVANTAGES

- Multi consistency: from thick-bed to flow-bed
- Very economical, contains lightweight aggregates
- Highly flexible, smooth, handling optimized
- Highly dust reduced
- Hydraulic-setting
- No vertical slipping, possible to level out
- Up to 25 mm layer thickness
- Extended open time
- Frost resistant
- Component of an ETAG 022 certified system

ENVIRONMENTAL INFORMATION

- EMICODE EC1^{PLUS}: Very low emissions
- IBU Environmental Product Declaration (EPD)

APPROVALS / STANDARDS

CE Marking and Declaration of Performance to EN 12004: Adhesives for tiles in the form of cementitious adhesives intended for use in all internal and external tiling - Class C2 TE S1

Storage Conditions Storage temperature between +5 °C and +35 °C. Store in a dry place.
Opened bags must be closed immediately.

Appearance / Colour Grey powder

TECHNICAL INFORMATION

Transverse deformation ≥ 2.5 mm (EN 12002)

Tensile adhesion strength Initial: ≥ 1.00 N/mm² (EN 1348, 8.2)

Water immersion: ≥ 1.00 N/mm² (EN 1348, 8.3)

Heat ageing: ≥ 1.00 N/mm² (EN 1348, 8.4)

Freeze-thaw cycles: ≥ 1.00 N/mm² (EN 1348, 8.5)

Thermal Resistance Min. -20 °C, max. +80 °C (After full curing)

Reaction to Fire Class A2_{fl}-s1 / A2-s1, d0

SYSTEM INFORMATION

System Structure SikaCeram®-260 StarFlex is compatible with Sika® waterproofing products.

For grouting, suitable grout of the SikaCeram® range must be used.

For swimming pools, please contact the local Sika technical service.

APPLICATION INFORMATION

Fresh mortar density ~ 1.4 kg/l

Consumption The material consumption depends on the nature of the substrate, type of ceramic covering, the consistency setting and application method. Effective consumption may therefore differ slightly from the following values:

| Notched trowel size | Consumption |
|---------------------|-------------|
|---------------------|-------------|

| | |
|------|------------------------------|
| 4 mm | ~ 1.3 kg/m ² |
|------|------------------------------|

| | |
|------|------------------------------|
| 6 mm | ~ 1.9 kg/m ² |
|------|------------------------------|

| | |
|------|------------------------------|
| 8 mm | ~ 2.4 kg/m ² |
|------|------------------------------|

| | |
|-------|------------------------------|
| 10 mm | ~ 2.8 kg/m ² |
|-------|------------------------------|

| | |
|-----------------------|------------------------------|
| Crescent moon (20/13) | ~ 4.0 kg/m ² |
|-----------------------|------------------------------|

Layer Thickness Max. 25 mm

Slip resistance ≤ 0.5 mm with 8 l water per 25 kg bag (EN 1308)

Ambient Air Temperature Min. +5 °C, max. +35 °C

Mixing Ratio Thin-bed mortar (wall): ~ 8.00 l water/25 kg

Thin-bed mortar (floor): ~ 9.00 l water/25 kg

Middle-bed mortar (floor): ~ 9.00 l water/25 kg

Thick-bed mortar (floor): ~ 8.00 l water/25 kg

Flow-bed mortar (floor): ~ 10.00 l water/25 kg

Levelling consistency: 8.00 - 10.00 l water/25 kg

Substrate Temperature Min. +5 °C, max. +35 °C

Pot Life ~ 3 hours (+20 °C, 50 % r.h.)

Open Time ~ 30 minutes (+23 °C, 50 % r.h.) (EN 1346)

Applied Product Ready for Use

| | |
|-------------------|------------|
| Walkability: | ~ 12 hours |
| Grouting inside: | ~ 12 hours |
| Grouting outside: | ~ 48 hours |
| Full traffic: | ~ 7 days |

Protect from adverse weather conditions, such as high or low (< +5 °C) temperatures, rain, draft, direct exposure to sun, for at least 24 - 48 hours from application.

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

Protect from adverse weather conditions, such as high or low (< +5 °C) temperatures, rain, draft, direct exposure to sun, for at least 24 - 48 hours from application.

Movement joints are to be taken over in the upper decking.

For the grouting and laying of natural stones not sensitive to discoloration and deformation, sample areas have to be created.

The technical data refer to +20 °C and 50 % r.h. Extend lower temperatures, higher shorten the specified values.

SikaCeram®-260 StarFlex must **not** be applied in the following cases:

- On metal or wooden surfaces
- On old ceramic tiles in the outdoor area

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

The substrate must be sound, load-bearing and free of cracks. Poorly consolidated, not sustainable surface layers, extremely dense and/or smooth surfaces, cement slurry, separating layers (eg dirt, dust, grease, oil, paint residues, etc.) must be removed and/or roughened.

The substrate must comply with the relevant standards, leaflets and guidelines. The following primers should be used:

For absorbent cement resp. calcium sulphate substrates

- Sikafloor®-01 Primer

For smooth surfaces (eg old coverings)

- Sikafloor®-02 Primer

For critical surfaces

- Sand Sika® Primer MB in excess (eg Sika® Quartz Sand 0.3-0.9 mm)

If used on above mentioned substrates in most or wet rooms, an additional Sika bonded sealing/waterproofing system has to be performed - adequate for the corresponding moisture loading class. Any leveling layers must be applied below the waterproofing.

Spot unevenness can be compensated for up to 25 mm layer thickness with SikaCeram®-260 StarFlex, at least 24 hours before the tiles and panels are laid. For full-surface levelling and thicker layers, mortars from the Sika MonoTop® or Sika® Level range must be selected.

MIXING

In a clean container, mix with cold tap water for 3 minutes, lump-free and homogeneous. Use of a mixer with 600 rpm is recommended.

Do not mix more material than can be used within the pot life.

APPLICATION

Apply SikaCeram®-260 StarFlex to the substrate using a suitable tooth trowel, depending on the area of application or tile format, also on the back of the plate (buttering/floating method).

Apply only as much mortar as ceramic tiles and plates, etc. can be inserted or inserted into the fresh mortar bed within the open time.

Do not moisten the mortar bed with water.

Apply enough mortar to wet the back of the board over the entire surface. Insert the plates into the applied mortar bed and press down.

CLEANING OF TOOLS

Clean tools with water immediately 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

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