

## PRODUCT DATA SHEET

## SikaScreed® SE-01

RAPID-SETTING CEMENTITIOUS SCREED

**DESCRIPTION**

Rapid-setting, semi-dry, ready-mixed cementitious screed for indoor applications (outdoor applications on request). Complies with EN 13813, class CT-C30-F6. Application thickness between 25 - 80 mm.

**USES**

Suitable for heated and unheated indoor screeds (limited outdoor applications) and for repairing cement screeds under ceramic, natural stone, textile and parquet coverings.

**CHARACTERISTICS / ADVANTAGES**

- Conditionally frost-resistant
- Rapid-setting hydraulic mortar
- Allowing early use
- Extremely low shrinkage

**SUSTAINABILITY**

EMICODE EC1<sup>PLUS</sup>, 10420/20.10.00, 09.05.2019

**APPROVALS / CERTIFICATES**

- CE Mark and Declaration of Performance according to EN 13813

**PRODUCT INFORMATION**

|                            |   |                       |
|----------------------------|---|-----------------------|
| <b>Composition</b>         | Cementitious  |                       |
| <b>Packaging</b>           | Bag:  | 25 kg                 |
|                            | Pallet:   | 42 x 25 kg (1 050 kg) |
| <b>Appearance / Colour</b> | Grey  |                       |
| <b>Shelf life</b>          | 9 months from date of production if stored in original, unopened containers   |                       |
| <b>Storage conditions</b>  | Storage temperature between +5 °C and +25 °C. Store in dry conditions. Immediately close opened containers after use. |                       |
| <b>Density</b>             | Powder:   | ~ 1,9 kg/l            |
|                            | Fresh mortar:   | ~ 2,0 kg/l            |
| <b>Maximum Grain Size</b>  | 0 - 4 mm  |                       |

## TECHNICAL INFORMATION

|                             |                          |           |              |
|-----------------------------|--------------------------|-----------|--------------|
| Compressive Strength        | ≥ 30 N/mm <sup>2</sup>   | (28 days) | (EN 13892-2) |
| Tensile Strength in Flexure | ≥ 6 N/mm <sup>2</sup>    | (28 days) | (EN 13892-2) |
| Temperature Resistance      | Min. -20 °C, max. +80 °C |           |              |

## APPLICATION INFORMATION

|                               |  |  |  |
|-------------------------------|--|--|--|
| Mixing Ratio                  | 1.9 - 2.0 liters water per bag   |  |  |
| Consumption                   | ~ 2.0 kg/m <sup>2</sup> per mm layer thickness   |  |  |
| Layer Thickness               | <b>Floating screeds</b><br>Min. 45 mm (SIA 251)<br>(For screeds incorporating floor heating system, add outside pipe diameter to minimum layer thickness.)<br><br><b>Bonded screeds on cementitious substrates</b><br>Floor levelling compound: 25 - 80 mm   |  |  |
| Ambient Air Temperature       | Min. +5 °C, max. +25 °C  |  |  |
| Substrate Temperature         | Min. +5 °C, max. +25 °C  |  |  |
| Pot Life                      | ~ 40 minutes   |  |  |
| Applied Product Ready for Use | <b>Ready for foot traffic</b> (+23 °C, 50 % rh)<br>After 4 - 8 hours. No live loads or heavy point loads are permissible when screed is ready for foot traffic.<br><br><b>Readiness for flooring installation</b><br>Tile coverings on unheated screeds after 8 - 10 hours, natural and artificial stone coverings as well as large format tiles on unheated screeds after 2 days.<br><br>For all other covering types, ensure that maximum residual moisture for subsequently installed covering/coating type is not exceeded (see relevant standards and guidance papers for subsequent covering or adhesive).<br><br><b>Heated screeds</b><br>Prior to flooring installation, heat up screed in accordance with following procedure:<br>Commence heating-up procedure at earliest 3 days after screed laying. Start by maintaining flow temperature at +25 °C for 3 days. Then set flow temperature to maximum design value in increments of 5 °C and maintain for 4 days. Then lower temperature in 5 °C increments or, if required, maintain at maximum flow temperature of +20 °C. Completion of a form recording heating-up procedure is mandatory. |  |  |

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Substrate shall be solid, stable and free from cracks.

Remove and/or roughen any weak surface layers, extremely dense and/or smooth substrates, cement slurry and separating layers (e.g. dirt, dust, grease, oil, paint residue).

For bonded screeds, the substrate must be pre-treated with SikaScreed®-10 BB or SikaScreed®-20 EBB bonding agent. The screed is applied into the still fresh bonding slurry.

#### Floating screeds on insulation or separating layer

Substrate and insulation layers in accordance with Swiss standard SIA 251 "Schwimmende Estriche im Innenbereich" ("Indoor floating screeds").

### MIXING

Place SikaScreed® SE-01 and water in suitable container in specified proportions and mix with electric stirrer (max. 500 rpm) to homogeneous consistency. Observe mixing time of 3 minutes.

### APPLICATION

The prepared areas may only be as large that they can be finished within the processing time.

### CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened material can only be mechanically removed.

## IMPORTANT CONSIDERATIONS

- Protect screed mortar while setting from sunshine, drafts, frost, heavy rain and high indoor temperatures (> +25 °C).
- Any movement or perimeter joints in substrate shall be carried through screed.
- Technical data relate to +20 °C and 50 % r.h. Lower temperatures lengthen and higher temperatures shorten stated times.

## 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.

## 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.

Tel: +30 210 8160 600

Fax: +30 210 8160 606

www.sika.gr | sika@gr.sika.com



### Product Data Sheet

SikaScreed® SE-01

May 2020, Version 03.01

020815020010000107

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related 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.

SikaScreedSE-01-en-GR-(05-2020)-3-1.pdf