

PRODUCT DATA SHEET

SikaScreed® SE-04

RAPID-SETTING CEMENTITIOUS SCREED



DESCRIPTION

SikaScreed® SE-04 is a rapid-setting, semi-dry, ready-mixed mortar, class CT-C50-F7 cementitious screed according to EN 13813.

USES

- For heated and unheated screeds
- Indoor and outdoor applications
- For cementitious screed repairs

CHARACTERISTICS / ADVANTAGES

- Frost-resistant
- Rapid-setting hydraulic mortar
- Quick setting, allowing fast use of floor

APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN 13813 - Resin screed material for internal use in buildings

PRODUCT INFORMATION

Composition	Cementitious	
Packaging	Bag	25 kg
	Pallet	42 * 25 kg (= 1050 kg)
Appearance / Colour	Grey	
Shelf life	9 months from date of production	
Storage conditions	Store in original, sealed, undamaged and unopened containers, in dry conditions, at temperatures between +5°C and +25°C. Immediately re-seal opened containers.	
Density	Powder	~ 1,9 kg/lt
	Fresh mortar	~ 2,0 kg/lt
Maximum Grain Size	4 mm	
Product Declaration	CE-marking and Declaration of Performance as Cementitious levelling compound according to EN 13813:2002, based on type testing and factory production control.	

TECHNICAL INFORMATION

Compressive Strength	~ 58 N/mm ²	28 days	(EN 13892-2)
Tensile Strength in Flexure	8 N/mm ²	28 days	(EN 13892-2)

Temperature Resistance -20°C min / +80°C max

APPLICATION INFORMATION

Mixing Ratio	2,0 lt of water per 25 kg bag
Consumption	~ 2,0 kg/m ² per mm layer thickness
Layer Thickness	Floating Screeds min 45 mm (SIA 251) (For screeds incorporating floor heating system, add outside pipe diameter to minimum layer thickness.) Bonded Screeds on cementitious substrates Floor levelling compound 25 - 80 mm
Ambient Air Temperature	+5°C min / +25°C max
Substrate Temperature	+5°C min / +25°C max
Pot Life	~ 50 minutes
Applied Product Ready for Use	Ready for foot traffic (+23°C, 50 % RH) After approx. 3 - 4 hours. No live loads or heavy point loads are permissible when screed is ready for foot traffic. Ready for floor installation For tile and natural stone coverings on unheated screeds: after 4 hours, provided moisture content does not exceed 2.5% CM. 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). Heated screeds Prior to flooring installation, heat up screed in accordance with following procedure: 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, structurally sound and free from cracks.
- Remove and/or roughen any weak surface layers, extremely dense and/or smooth substrates, laitance and adhesion-impairing layers (e.g. dirt, dust, grease, oil, paint residue).
- For bonded screeds, pretreat substrate with SikaScreed®-20 EBB bonding agent. Then apply screed wet-in-wet to fresh bonding slurry.
- Floating screeds on insulation or separating layer.

MIXING

Add water in a suitable container in the specified proportion and when adding SikaScreed® SE-04 mix with electric stirrer (max. 500 rpm) until achieving a homogeneous consistency. Observe mixing time of 3 minutes.

APPLICATION

Prepared areas that are to be covered must not be larger than the surface that can be covered during the pot life of the product.

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 direct sunlight, drought, 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 % RH. 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.

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.

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