

PRODUCT DATA SHEET

Sikafloor®-161 HC Screed

UNIVERSAL EPOXY RESIN FLOOR

DESCRIPTION

A three-component solvent-free pigmented mortar screed based on epoxy resins.

USES

Sikafloor®-161 HC Screed may only be used by experienced professionals.

To form non-slip, abrasion-resistant epoxy resin flooring of 5 -10 mm thickness in :

- Industrial floorings subject to moderate or heavy loading
- Workshop and factory floors
- Machine shops and warehouses

- Depots and loading ramps
- Hangars
- Stairs

Suitable for use on :

- Concrete, mortar and stone substrates with or without ventilation from below.

CHARACTERISTICS / ADVANTAGES

- Easy to apply
- Excellent adhesion to substrate
- Anti slip, anti-skid finish
- Excellent resistance to abrasion
- High mechanical strengths
- Permeable to water vapour
- Solvent free

PRODUCT INFORMATION

Packaging	21 kg set	
Shelf life	24 months from date of production	
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +18 °C and +30 °C.	
Appearance and colour	Comp. A – Resin :	Liquid, brownish-transparent
	Comp. B – Hardener :	Liquid, transparent
	Comp. C – Filler :	Quartz Sand
Density	~2.0 kg/L for finished screed	

TECHNICAL INFORMATION

Compressive strength	14 days	~60.0 N/mm ²
Tensile strength	14 days	~6.0 N/mm ²
Tensile adhesion strength	14 days	~2.0 N/mm ²

APPLICATION INFORMATION

Mixing ratio	Comp. A (Natural or Pigmented)	2.37 kg
	Comp. B	0.63 kg
	Comp. C	18 kg
Consumption	Primer : Sikafloor® 161 HC	0.3 – 0.5 kg/m ²
	Screed : Sikafloor®-161 HC Screed	~2.0 kg/m ² /mm
	Notes : These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage, etc.	
Ambient air temperature	+10 °C to +30 °C	
Relative air humidity	80 % r.h. max.	
Dew point	Beware of condensation. The substrate and uncured applied floor material must be at least 3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product.	
Substrate temperature	+10 °C to +30 °C Substrate temperature must be 3 °C above measured dew point	
Substrate moisture content	< 4 % pbw moisture content. Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).	
Pot Life	15 min (+30 °C)	
Curing time	Description	Time
	Can be walked	12 h
	Light mechanical loading permitted	2 d
	Fully cured	5 d
	Notes: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.	

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

Cementitious substrates must be at least 4 weeks old

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Substrate must be structurally sound, clean, dry and free from all traces of loose material, laitance, oil and grease.
- Any unsound material must be removed before proceeding.
- Priming with Sikafloor® 161 HC primer. Apply "wet of wet".

MIXING

- Stir Component A thoroughly with an electric stirrer prior to batching.
- Add Component B in the correct mix ratio and mix for 2-3 minutes at a low speed.
- Place the correctly batched quantity of Component C in the mixer (forced action type).
- Add the prepared resin mix (Components A + B) while the mixer is running, and continue to mix until a homogeneous and uniformly moist mix is obtained.

APPLICATION

Place the mortar while the primer coat is still tacky, and rake out evenly (Always apply “wet on wet” over Sikafloor® 161 HC Primer). Tamp down with a beam laid across steel screeding rails and finish with a steel float.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with thinner C immediately after use.

Hardened/cured 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 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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