PRODUCT DATA SHEET

Sikafloor®-169

Epoxy binder for mortars, screeds and seal coats

DESCRIPTION

Sikafloor®-169 is a 2- part, low yellowing, low viscous, transparent epoxy resin binder for mortars, screeds and seal coats. For normal up to medium heavy and heavy mechanical loading conditions. Internal use.

USES

Sikafloor®-169 may only be used by experienced professionals.

- Transparent binder for coloured quartz mortars, screeds and Sikafloor® Decodur systems
- Transparent sealer coat for broadcast coloured quartz mortar screeds and Sikafloor® Decodur systems
- Normal up to medium heavy and heavy mechanical loading conditions
- Food and pharmaceutical industries, show rooms, workshops and production areas etc.

CHARACTERISTICS / ADVANTAGES

- Transparent
- Low VOC-content
- Low yellowing
- Good mechanical and abrasion resistance
- Low viscous
- Multi-purpose binder

ENVIRONMENTAL INFORMATION

- Conformity with LEED v4 MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization - Material Ingredients
- Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings
- IBU Environmental Product Declaration (EPD)

- VOC emission certificate according to AgBB und DIBt approval requirements, eurofins
- Sikafloor®-169 is listed on the Eco-Product Directory as environmentally friendly product choice for green building initiatives. (application no.: PL-01461-2022)

APPROVALS / STANDARDS

- Particle Emission, Biological Stress ISO 846, Sikafloor®-169/-DecoFiller/-304 W, CSM Fraunhofer, Certificate No. SI/1008-533
- Emission Behaviour EN 13813, Sikafloor®-144/-156/-161/-264/-169/-304 W, Sikagard®-186, DIBt, Certificate No. Z-156.605-1004
- Sliding test DIN 51130, Sikafloor®-169, Roxeler, Certificate No. 020109-15-11
- Sliding test DIN 51131, Sikafloor®-169, Roxeler, Certificates No. 020108-13-30a, 020108-13-31a, 020109-15-10a, 020109-15-13a, 020109-15-4a, 020171-14-1a, 020197-15-1a, 020197-15-5a
- Coating compatibility test PV 3.10.7, Sikafloor®-169, HQM, Report No. 14-04-14201871-7
- CE Marking and Declaration of Performance to EN 13813 - Resin screed material for internal use in buildings - Sikafloor®-169
- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete -Coating - Sikafloor®-169



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PRODUCT INFORMATION

Chemical Base	Ероху				
Packaging	Part A 7.5 kg co		iner		
	Part B	Part B 2.5 kg container			
	Part A+B	Part A+B 10 kg unipack			
	Refer to current price list for packaging variations.				
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. Always refer to packaging.				
Appearance / Colour	Final floor appearance: Gloss finish When product is exposed to direct sunlight, there may be some discolouration and colour variation, this has no influence on the function and performance of the coating. Resin - Part A cloudy liquid				
	Hardener - Part B	yellowish, li			
Density	Part A Part B Mixed resin	~ 1.1 kg/l ~ 1.0 kg/l ~ 1.1 kg/l	(DIN EN ISO 2811-1)		
	All Density values at +	23 °C.			
TECHNICAL INFORMATION					
Shore D Hardness	~ 80 (7 days / +23 °C)		(DIN 53 505)		
Abrasion Resistance	47 mg (CS 10/1000/1000) (8 days / +23 °C) (D		(DIN 53 505)		
Thermal Resistance	Exposure*	Dry heat			
	Permanent	+50 °C			
	Short-term max. 7 day				
	Short-term max. 12 ho	ours +100 °C			
	Short-term moist/wet heat* up to +80 °C where exposure is only occasional (steam cleaning etc.). * No simultaneous chemical and mechanical exposure and only in combination with Sikafloor® systems as a broadcast system with ~ 3–4 mm thickness.				
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information.				
SYSTEM INFORMATION					
Systems	Refer to the following System Data Sheets: Sikafloor® Decodur ES-22 Granite Sikafloor® Decodur ES-26 Flake Sikafloor® Decodur EB-26 Quartz Sikafloor® Decodur EM-21 Compact				





APPLICATION INFORMATION

Mixing Ratio	Mixed resin Part A: Part B = 75: 25 (by weight) Mixed resin and Decodur Part C filler Sika-CompactFloor: 1 part resin: 1 part Sikafloor®-CompactFiller Wearing course Sika-DecoFloor: 1 part resin: 1.5 part Sikafloor®-DecoFiller					
Consumption	~ 0.7-2 kg/m² ap These figures ar due to surface p For detailed info codur ES-22 gra	~ 0.15 kg/m² applied as a top coat ~ 0.7-2 kg/m² applied as a wearing course These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc. For detailed information, refer to the System Data Sheets: Sikafloor® De- codur ES-22 granite, Sikafloor® Decodur ES-26 flake, Sikafloor® Decodur EB-26 Quartz and Sikafloor® Decodur EM-21 Compact.				
Ambient Air Temperature	+10 °C min. / +3	+10 °C min. / +30 °C max.				
Relative Air Humidity	80 % max.	80 % max.				
Dew Point	The substrate and above dew point floor finish.	Low temperatures and high humidity conditions increase the probability of				
Substrate Temperature	+10 °C min. / +3	+10 °C min. / +30 °C max.				
Substrate Moisture Content	Test method: Si	≤4 % parts by weight Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).				
Pot Life	Temperature +10 °C +20 °C +30 °C		Time ~ 60 minutes ~ 30 minutes ~ 20 minutes			
Curing Time	+10°C +20°C +30°C Times are appro	cing Sikafloor®-169 are minimum 45 hours 36 hours 24 hours eximate and will be by temperature and	$ \frac{\frac{M}{4}}{\frac{3}{2}} $ affected by chang	aximum days days days days ing ambient condi-		
Applied Product Ready for Use	Temperature	Foot traffic	Light traffic	Full cure		
	+10 °C +20 °C +30 °C	~ 36 hours ~ 12 hours ~ 8 hours	~ 5 days ~ 3 days ~ 2 days	~ 10 days ~ 7 days ~ 5 days		
	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 Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS

 After application, Sikafloor®-169 must be protected from damp, condensation and direct water contact

- or at least 24 hours
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective surface cracking.
- Under certain conditions, under floor heating or high ambient temperatures combined with high point loading, may lead to indentations in the resin.

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- If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.
- Do not apply on substrates with rising moisture.
- Trials must be carried out on screed and mortar mixes to confirm and evaluate suitable aggregate colour blends and size distribution (granulometry).
- Free fall mixers must not be used for mixing.

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

VOC DATA

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / x type xx) is 500 g/l (Limits 2010) for the ready to use product.

The maximum content of Sikafloor®-169 is \leq 500 g/l VOC for the ready to use product.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1,5 N/mm².

Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

Cementitious substrates must be prepared mechanically using suitable abrasive blast cleaning or planing / scarifying equipment to remove cement laitance and achieve an open textured gripping surface profile suitable for the product thickness.

High spots can be removed by grinding.

Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.

Repairs to the substrate, filling of cracks, blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikafloor®-169. All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by vacuum extraction equipment.

MIXING

Prior to mixing all parts, mix separately part A (resin) using a low speed single paddle electric stirrer (300-400 rpm). Add Part B (hardener) to Part A and mix part A + B continuously for 2.0 minutes until a uniform mix has been achieved. When parts A and B have been mixed. Using a double paddle (axis) electric stirrer (> 700 W), pan type revolving or forced action mixer or other suitable equipment (free fall mixers must not be used). Gradually add the required Decodur Part C filler or for mortars the appropriate granulometry of aggregate. Mix for a further 2.0 minutes until a uniform mix has been achieved. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth consistent mix. Excessive mixing must be avoided to minimise air entrainment. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing. Mix full units only. Mixing time for A+B = 2.0minutes. A+B+C = 4.0 minutes.

APPLICATION

Refer to the System Data Sheets: Sikafloor® Decodur ES-22 Granite, Sikafloor® Decodur ES-26 Flake, Sikafloor® Decodur EB-26 Quartz and Sikafloor® Decodur EM-21 Compact.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened material can only be removed mechanically

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.



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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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