

Sikafloor[®]-169

2-part epoxy binder for mortars, screeds and seal coats

Product Description

Sikafloor[®]-169 is a two part, very low yellowing, low viscous, transparent epoxy resin.
"Total solid epoxy composition acc. to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)"

Uses

- Transparent binder for coloured quartz mortars and screeds like Sika-CompactFloor and Sika-DecoFloor
- Transparent sealer coat for broadcast colour quartz mortar screeds and smooth coatings fully broadcast to excess with coloured chips
- Suitable for normal up to medium heavy and heavy mechanical loading
- Particularly used in the food and pharmaceutical industries, for show rooms, workshops and production areas etc.

Characteristics / Advantages

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

Test

Approval / Standards

- Biological resistance certificate Sikafloor[®]-169 CSM Statement of Qualification – ISO 846, very good - Report No. SI 1008-533.
- Food compliance according to EC Nr. 1935/2004 and the German Food and Feed Act, Hygiene Institut des Ruhrgebiet; test report H-193755-10 August 2010 (tested system: Sikafloor[®]-169 sealed with Sikafloor[®]-304 W)
- Eurofins Emission testing of Sikafloor[®]-169 according to the AgBB-scheme and guidelines of the DiBt (AgBB – Committee for Health-related Evaluation of Building Products, DiBt – German Institute for Building Technology).
- Sampling, testing and evaluation were performed according to ISO-16000, Report No. 766563C.
- 2-part epoxy binder for mortars, screeds and seal coats according to EN 1504-2: 2004 and EN 13813:2002, DoP 02 08 01 02 009 0 000010 2017, certified by Factory Production Control Body No. 0921, certificate 2017, and provided with the CE-mark

Construction



Product Data

Form

Appearance / Colours	Resin - part A: turbid, liquid Hardener - part B: yellowish, liquid
Packaging	Part A: 6 kg containers Part B: 2 kg containers Part A+B: 8 kg unipacks
	Bulk packaging: Part A: 190 kg drums Part B: 190 kg drums

Storage

Storage Conditions / Shelf Life	24 months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C. Protect from direct sunlight.
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Technical Data

Chemical Base	Epoxy
Density	Part A: ~ 1.1 kg/l Part B: ~ 1.0 kg/l Mixed resin: ~ 1.1 kg/l All Density values at +23°C. (DIN EN ISO 2811-1)

Mechanical / Physical Properties

Shore Hardness	80 (7days / +23°C) (DIN 53505)
Abrasion Resistance	47 mg (CS 10/1000/1000) (8 days / +23°C) (DIN 53 109 (Taber Abrader Test))

Resistance

Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.
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Thermal Resistance

Exposure*	Dry heat
Permanent	+50°C
Short-term max. 7 d	+80°C
Short-term max. 12 h	+100°C

Short-term moist/wet heat* up to +80°C where exposure is only occasional (i.e. during steam cleaning etc.)

*No simultaneous chemical and mechanical exposure.

USGBC LEED Rating	Sikafloor®-169 conforms to the requirements of LEED EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings EPA Reference Test Method 24 VOC Content < 100 g/l
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EU Regulation 2004/42 VOC - Decopaint Directive	According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type sb) is 500 g/l (Limits 2010) for the ready to use product The maximum content of Sikafloor®-169 is < 500 g/l VOC for the ready to use product.
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System Information

Please refer to the system data sheets of the Sika®-DecoQuartz, Sika®-DecoFlake, Sika®-DecoFloor and Sika®-CompactFloor Systems

Application Details

Substrate Quality & Preparation Refer to the Sika Method Statement Surface Evaluation & Preparation

Application Conditions / Limitations

Substrate Temperature +10°C min. / +30°C max.

Ambient Temperature +10°C min. / +30°C max.

Relative Air Humidity 80% r.h. max.

Application Instructions

Mixing Part A : part B = 75 : 25 (by weight)

Application Method / Tools Refer to the Sika Method Statement Mixing & Application

Potlife

Temperatures	Time
+10°C	~60 minutes
+20°C	~30 minutes
+30°C	~ 20 minutes

Waiting Time / Over coating Before applying Sikafloor®-169 on Sikafloor®-169, Sikafloor®-160 or Sikafloor®-264 allow:

Substrate temperature	Minimum	Maximum
+10°C	36 hours	4 days
+20°C	12 hours	2 days
+30°C	8 hours	1 day

Before applying Sikafloor®-304 W on Sikafloor®-169 allow:

Substrate temperature	Minimum	Maximum
+10°C	45 hours	4 days
+20°C	36 hours	3 days
+30°C	24 hours	2 days

Before applying Sikafloor®-304 W on a epoxy floor, e.g Sikafloor®-169 the surface has to be prepared by grinding with a black scotch bride grinding pad.

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Notes on Application / Limitations

Do not apply Sikafloor®-169 on substrates with rising moisture.

Freshly applied Sikafloor®-169 should be protected from damp, condensation and water for at least 24 hours.

Trials should be carried out on mortar mixes to confirm and evaluate suitable aggregate colour blends and size distribution (granulometry).

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

Under certain conditions, under floor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.

Under UV-exposure some discolouration (yellowing) will occur, however this has no influence on the function and performance of the coating.

If 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.

Curing Details

Applied Product ready for use

Sikafloor®-169

Temperatures	Foot traffic	Light traffic	Full cure
+10°C	36 hours	~ 5 days	~ 10 days
+20°C	12 hours	~ 3 days	~ 7 days
+30°C	8 hours	~ 2 days	~ 5 days

Note: Times are approximate and will be affected by changing ambient conditions.

Cleaning / Maintenance

Refer to the Method Statement Sikafloor Cleaning Regime

Value Base

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.

Health and Safety Information

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 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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