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

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 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

**PRODUCT DATA**

**FORM**

**COLOURS**

Resin – Part A : turbid, liquid
Hardener – Part B : yellowish, liquid

**PERFORMANCE UNDER UV-EXPOSURE**

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

**PACKAGING**

Part A: 7.5 kg pail
Part B: 2.5 kg pail
Part A+B: 10 kg set

**STORAGE**

**STORAGE CONDITIONS / SHELF-LIFE**

24 months from date of production if stored properly in undamaged and unopened original sealed packaging in cool dry conditions. Protect from direct sunlight and frost.

**TECHNICAL DATA**

**CHEMICAL BASE**

Epoxy
DENSITY (23°C)  
(According to DIN EN ISO 2811-1)  
Part A : Approx. 1.1 kg/l  
Part B : Approx. 1.0 kg/l  
Mixed resin : Approx. 1.1 kg/l

MECHANICAL / PHYSICAL PROPERTIES

COMpressive strength  
(According to EN-196-1)  
Approx. 80 N/mm² (7 days / +23°C)

FLEXURAL STRENGTH  
(According to EN-196-1)  
Approx. 20 N/mm² (7 days / +23°C)

SHORE HARDNESS  
(According to DIN 53505)  
80 (7 days / +23°C)

ABRASION RESISTANCE  
(According to DIN 53 109 taber abrader test)  
47 mg  
(CS 10/1000/1000) (8 days / +23°C)

CHEMICAL RESISTANCE  
Resistance to many chemicals. Please ask for a detailed chemical resistance table.

THERMAL RESISTANCE  

<table>
<thead>
<tr>
<th>Exposure*</th>
<th>Dry Heat</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Permanent</td>
<td>+50°C</td>
<td></td>
</tr>
<tr>
<td>Short-term max. 7 days</td>
<td>+80°C</td>
<td></td>
</tr>
<tr>
<td>Short-term max. 12 hours</td>
<td>+100°C</td>
<td></td>
</tr>
<tr>
<td>Short-term moist/wet heat*</td>
<td>up to +80°C where exposure is only occasional (i.e. during steam cleaning etc.)</td>
<td></td>
</tr>
</tbody>
</table>

*No simultaneous chemical and mechanical exposure.

SYSTEM INFORMATION

APPLICATION DETAILS

SYSTEM STRUCTURES

For more details about the Sika®-DecoQuartz, Sika®-DecoFlake, Sika®-DecoFloor and Sika®-CompactFloor Systems, please refer to the System Data Sheet and Method Statement for each of these systems.
<table>
<thead>
<tr>
<th>Sika@-DecoQuartz Broadcasted System (~2-3 mm)</th>
<th>Primer:</th>
<th>1-2 x Sikafloor® 156 / Sikafloor® 161 / Sikafloor® 169</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wearing course:</td>
<td>Sikafloor®-263 SL or 264 pigmented approx. the same like the following quartz sand</td>
<td></td>
</tr>
<tr>
<td>Broadcast:</td>
<td>Broadcast to excess with PU coated coloured quartz sand (0.3-0.8 mm or 0.7-1.2 mm)</td>
<td></td>
</tr>
<tr>
<td>Seal coat:</td>
<td>1-2 x Sikafloor®-169</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sika@-DecoFlake System (~2-3 mm)</th>
<th>Primer:</th>
<th>1-2 x Sikafloor® 156 / Sikafloor® 161 / Sikafloor® 169</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wearing course:</td>
<td>Sikafloor®-263 SL or 264 pigmented approx. the same like the following Sika PVA ColourFlakes. Filled 1:1 with quartz sand (0.1-0.3 mm)</td>
<td></td>
</tr>
<tr>
<td>Broadcast:</td>
<td>broadcast in excess with Sika-PVA ColourFlakes 3mm</td>
<td></td>
</tr>
<tr>
<td>First top coat:</td>
<td>1 x Sikafloor®-169</td>
<td></td>
</tr>
<tr>
<td>Grinding:</td>
<td>Soft grinding</td>
<td></td>
</tr>
<tr>
<td>Second top coat:</td>
<td>1 x Sikafloor®-169</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sika@-DecoFloor (~2 mm)</th>
<th>Primer:</th>
<th>1-2 x Sikafloor® 264</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wearing course:</td>
<td>1 x Sikafloor®-169 + 1.5 x Sikafloor®-DecoFiller</td>
<td></td>
</tr>
<tr>
<td>Seal coat:</td>
<td>1 x Sikafloor®-304 W (Matt finish.)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sika@-CompactFloor (~3 mm)</th>
<th>Primer:</th>
<th>1-2 x Sikafloor® 156 / Sikafloor® 161 / Sikafloor® 169 slightly broadcast with Sika-PU Quartz CF 0.3-1.2 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wearing course:</td>
<td>1 x Sikafloor®-169 + 1 x Sikafloor®-Compact Filler</td>
<td></td>
</tr>
<tr>
<td>Slurry:</td>
<td>broadcast to saturation with Sika-PU Quartz CF 0.3-1.2mm</td>
<td></td>
</tr>
<tr>
<td>Broadcast:</td>
<td>broadcast to saturation with Sika-PU Quartz CF 0.3-1.2mm</td>
<td></td>
</tr>
<tr>
<td>Power floating:</td>
<td>1 x Sikafloor®-169 after removing the upstanding not fully embedded Sika-PU Quartz CF 0.3-1.2mm with a steeltrowel and vacuuming of the surface</td>
<td></td>
</tr>
<tr>
<td>Top coat:</td>
<td>1 x Sikafloor®-169 after removing the upstanding not fully embedded Sika-PU Quartz CF 0.3-1.2mm with a steeltrowel and vacuuming of the surface</td>
<td></td>
</tr>
<tr>
<td>Seal coat (optional)</td>
<td>Glossy finish. 1 x Sikafloor®-169</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Matt finish. 1 x Sikafloor®-304 W</td>
<td></td>
</tr>
</tbody>
</table>

Noncompliance of the mixing ratio from Sikafloor®-169 or higher layer thickness (higher consumption) might cause discolouration.
SUBSTRATE QUALITY
The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².

The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.
On critical substrates, e.g. a strong absorbent cementitious surface, the application of a trial area is highly recommended, in order to ensure a pore free surface, after priming.

SURFACE PREPARATION
Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.

Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, SikaDur® and SikaGard® range of materials.

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.

High spots must be removed by e.g. grinding.
All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

APPLICATION INSTRUCTIONS
MIXING
Part A : Part B = 75 : 25 (by weight)

MIXING TIME
Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved.

To ensure thorough mixing, pour materials into another container and mix again to achieve a consistent mix.

Over mixing must be avoided to minimize air entrainment.

When using an additional C component like the Sikafloor®-CompactFiller or the Sikafloor®-DecoFiller, please add the C component after Parts A and B have been mixed, in the correct mixing ratio (Slurry Sika-CompactFloor; 1 part resin: 1 part Sikafloor®-CompactFiller; Wearing course Sika-DecoFloor; 1 part resin: 1.5 part Sikafloor®-DecoFiller) and mix for a further 2 minutes.
until a uniform mix has been achieved. For mortars, add the premixed Sikafloor®-169 to the aggregates and mix until a uniform mix has been achieved.

**MIXING TOOLS**
Sikafloor®-169 must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

For the preparation of mortars, use a forced action mixer of rotating pan, paddle or trough type. Free fall mixers must not be used.

**SUBSTRATE TEMPERATURE**
+10°C min / +30°C max.

**AMBIENT TEMPERATURE**
+10°C min / +30°C max.

**SUBSTRATE MOISTURE CONTENT**
≤4% pbw moisture content.

Test method: Sika®-Tramex meter or CM – measurement or Oven-dry method.

No rising moisture according to ASTM (Polyethylene-sheet).

**RELATIVE AIR HUMIDITY**
80% r.h. max.

**DEW POINT**
Beware of condensation!
The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation or blooming on the floor finish.

**POTLIFE**

<table>
<thead>
<tr>
<th>Temperatures</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>+10°C</td>
<td>~ 60 minutes</td>
</tr>
<tr>
<td>+20°C</td>
<td>~ 30 minutes</td>
</tr>
<tr>
<td>+30°C</td>
<td>~ 20 minutes</td>
</tr>
</tbody>
</table>

**WAITING TIME / OVERCOATING**
Before applying Sikafloor®-169 on Sikafloor®-169, Sikafloor®-156 or Sikafloor®-264 allow:

<table>
<thead>
<tr>
<th>Substrate temperature</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>+10°C</td>
<td>36 hours</td>
<td>4 days</td>
</tr>
<tr>
<td>+20°C</td>
<td>12 hours</td>
<td>2 days</td>
</tr>
<tr>
<td>+30°C</td>
<td>8 hours</td>
<td>1 day</td>
</tr>
</tbody>
</table>
Before applying Sikafloor®-304W on Sikafloor®-169 allow:

<table>
<thead>
<tr>
<th>Substrate temperature</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>+10°C</td>
<td>45 hours</td>
<td>4 days</td>
</tr>
<tr>
<td>+20°C</td>
<td>36 hours</td>
<td>3 days</td>
</tr>
<tr>
<td>+30°C</td>
<td>24 hours</td>
<td>2 days</td>
</tr>
</tbody>
</table>

Before applying Sikafloor®-304 W on an 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.

**CURING (APPLIED PRODUCT READY FOR USE)**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Foot traffic</th>
<th>Light traffic</th>
<th>Full cure</th>
</tr>
</thead>
<tbody>
<tr>
<td>+10°C</td>
<td>36 hours</td>
<td>~5 days</td>
<td>~10 days</td>
</tr>
<tr>
<td>+20°C</td>
<td>12 hours</td>
<td>~3 days</td>
<td>~7 days</td>
</tr>
<tr>
<td>+30°C</td>
<td>8 hours</td>
<td>~2 days</td>
<td>~5 days</td>
</tr>
</tbody>
</table>

Time specified is approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

**CLEANING OF TOOLS**

Clean all tools and application equipment with Thinner C immediately after use. Hardener and/or cured material can only be removed mechanically.

**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).

Recommended tools:
Serrated trowel for smooth wearing layer: e.g. Large-Surface Scraper, Toothed blades.

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.

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.
**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.

**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.

**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. 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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**FOR MORE PRODUCT NAME® INFORMATION:**

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Product Data Sheet
Sikafloor® -169
Apr. 2018, VERSION 3