

HOJA TÉCNICA

Sikafloor®-169

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

DESCRIPCIÓN DEL PRODUCTO

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)"

USOS

Sikafloor®-169 sólo debe ser utilizado por profesionales con experiencia demostrable

Sikafloor®-169 is used as:

- Transparent binder for coloured quartz mortars and screeds like Sikafloor® Decodur ES-22 Granite, Sikafloor® Decodur ES-26 Flake, Sikafloor® Decodur EB-26 Quartz and Sikafloor® Decodur EM-21 Compact
- 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.

CARACTERÍSTICAS / VENTAJAS

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

INFORMACIÓN AMBIENTAL

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

NORMAS / APROBACIONES

- 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.
- Synthetic resin screed material according to EN 13813:2002, Declaration of Performance 02 08 01 02 009 0000010 1008, certified by notified factory production control certification body 0921, certificate of conformity of the factory production control 2017, and provided with the CE marking.
- Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance 02 08 01 02 009 0000010 1008, certified by notified factory production control certification body 0921, certificate of conformity of the factory production control 2017, and provided with the CE marking.



INFORMACIÓN DEL PRODUCTO

Base química	Epoxy		
Presentación	Part A:	7.5 kg containers	
	Part B:	2.5 kg containers	
	Part A+B:	10 kg unipacks	
	Bulk packaging		
	Part A:	190 kg drums	
	Part B:	190 kg drums	
Apariencia / Color	Resin - part A:	turbid, liquid	
	Hardener - part B:	yellowish, liquid	
Vida útil	24 months from date of production		
Condiciones de almacenamiento	The product must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight.		
Densidad	Part A	~ 1.1 kg/l	(DIN EN ISO 2811-1)
	Part B	~ 1.0 kg/l	
	Mixed resin	~ 1.1 kg/l	
	All Density values at +23°C.		

INFORMACIÓN TÉCNICA

Dureza Shore D	~80 (7 days / +23 °C)	(DIN 53 505)
Resistencia a la abrasión	47 mg (CS 10/1000/1000) (8 days / +23 °C)	(DIN 53 505)
Resistencia química	Resistant to many chemicals. Contact Sika technical service for specific information.	
Resistencia térmica	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 (steam cleaning etc.).		
*No simultaneous chemical and mechanical exposure and only in combination with Sikafloor® systems as a broadcast system with approx. 3 - 4 mm thickness.		

INFORMACIÓN DEL SISTEMA

Sistemas	Please refer to the system data sheet of :	
	Sikafloor® Decodur ES-22 Granite	Smooth low voc coloured granite effect epoxy floor covering
	Sikafloor® Decodur ES-26 Flake	Smooth low voc coloured full flaked epoxy floor covering
	Sikafloor® Decodur EB-26 Quartz	Slip resistant low voc colour quartz broadcasted epoxy floor covering
	Sikafloor® Decodur EM-21 Compact	Smooth high resistant power floated broadcast colour quartz epoxy screed

INFORMACIÓN DE APLICACIÓN

Proporción de la mezcla	Part A : part B = 75 : 25 (by weight)
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Consumo	<p>~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 info, please refer to the System data sheet Sikafloor® Decodur ES-22 granite, Sikafloor® Decodur ES-26 flake, Sikafloor® Decodur EB-26 Quartz and Sikafloor® Decodur EM-21 Compact.</p>																		
Temperatura ambiente	+10 °C min. / +30 °C max.																		
Humedad relativa del aire	80 % r.h. max.																		
Punto de rocío	<p>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. Note: Low temperatures and high humidity conditions increase the probability of blooming.</p>																		
Temperatura del sustrato	+10 °C min. / +30 °C max.																		
Humedad del sustrato	<p>< 4 % pbw moisture content. Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).</p>																		
Vida útil de la mezcla	Temperature	Time																	
	+10 °C	~ 60 minutes																	
	+20 °C	~ 30 minutes																	
	+30 °C	~ 20 minutes																	
Tiempo de curado	<p>Before overcoating Sikafloor®-169 allow:</p> <table border="1"> <thead> <tr> <th>Substrate temperature</th> <th>Minimum</th> <th colspan="2">Maximum</th> </tr> </thead> <tbody> <tr> <td>+10°C</td> <td>45 hours</td> <td colspan="2">4 days</td> </tr> <tr> <td>+20°C</td> <td>36 hours</td> <td colspan="2">3 days</td> </tr> <tr> <td>+30°C</td> <td>24 hours</td> <td colspan="2">2 days</td> </tr> </tbody> </table> <p>Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.</p>			Substrate temperature	Minimum	Maximum		+10°C	45 hours	4 days		+20°C	36 hours	3 days		+30°C	24 hours	2 days	
Substrate temperature	Minimum	Maximum																	
+10°C	45 hours	4 days																	
+20°C	36 hours	3 days																	
+30°C	24 hours	2 days																	
Habilitación	Temperature	Foot traffic	Light traffic																
	+10 °C	~ 36 hours	~ 5 days																
	+20 °C	~ 12 hours	~ 3 days																
	+30 °C	~ 8 hours	~ 2 days																
			Full cure																
			~ 10 days																
			~ 7 days																
			~ 5 days																
	<p>Note: Times are approximate and will be affected by changing ambient conditions.</p>																		

INSTRUCCIONES DE APLICACIÓN

CALIDAD DEL SUSTRATO / PRE-TRATAMIENTO

- 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.
- 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.

MEZCLADO

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 minimise 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.

APLICACIÓN

Please refer to the System data sheet Sikafloor® Decodur ES-22 granite, Sikafloor® Decodur ES-26 flake, Sikafloor® Decodur EB-26 Quartz and Sikafloor® Decodur EM-21 Compact.

LIMPIEZA DE HERRAMIENTAS

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

DOCUMENTOS ADICIONALES

Substrate quality & Preparation

Please refer to Sika Method Statement: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".

Application instructions

Please refer to Sika Method Statement: "MIXING & APPLICATION OF FLOORING SYSTEMS".

Maintenance

Please refer to "Sikafloor®- CLEANING REGIME".

LIMITACIONES

- 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.

VALORES BASE

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Todos los datos que se indican en esta Hoja Técnica, están basados en ensayos de laboratorio. Las mediciones en obra de estos datos pueden variar debido a circunstancias más allá de nuestro control.



GESTION DE LA CALIDAD
ISO 9001:2015



GESTION AMBIENTAL
ISO 14001:2015



GESTION SALUD Y SEGURIDAD
ISO 45001:2018

Hoja técnica

Sikafloor®-169

Enero 2019, Versión 01.01
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RESTRICCIONES LOCALES

Observe, por favor, que como resultado de regulaciones locales específicas desempeño de este producto puede cambiar de acuerdo a las regulaciones locales de país a país. Consultar la Hoja Técnica del producto para una descripción exacta de los campos de aplicación.

ECOLOGÍA, SEGURIDAD E HIGIENE

El usuario debe leer las Fichas de Datos de Seguridad correspondientes más recientes antes de utilizar cualquier producto. Para obtener información y asesoramiento sobre la manipulación, el almacenamiento y la eliminación seguros de los productos químicos, los usuarios deberán consultar la Hoja de Datos de Seguridad (SDS) más reciente que contenga datos físicos, ecológicos, toxicológicos y otros relacionados con la seguridad.

DIRECTIVA 2004/42/CE - LIMITACIÓN DE LAS EMISIONES DE VOC

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 ≤ 500 g/l VOC for the ready to use product.

NOTAS LEGALES

Esta información y, en particular, las recomendaciones relativas a la aplicación y uso final del producto, están dadas de buena fe, basadas en el conocimiento y la experiencia actual de Sika de sus productos cuando son correctamente almacenados, manejados y aplicados, en situaciones normales, dentro de su vida útil y de acuerdo con todas y cada una de las recomendaciones de Sika. En la práctica, las posibles diferencias en los materiales, soportes y condiciones reales en el lugar de aplicación son tales, que no se puede ofrecer de la información del presente documento, ni de cualquier otra recomendación escrita, ni de consejo alguno brindado, ninguna garantía en términos de comercialización o idoneidad para propósitos particulares, ni obligación alguna fuera de cualquier relación legal que pudiera existir. Corresponde al usuario evaluar la conveniencia del producto para la aplicación y la finalidad deseadas. Sika se reserva el derecho de modificar las propiedades de sus productos en cualquier momento y sin necesidad de notificación alguna. Se reservan los derechos de propiedad de terceras partes. Los pedidos son aceptados bajo las presentes condiciones y de conformidad con los términos de las Condiciones Generales de Venta y Suministro al momento de efectuarlos. Los usuarios deben obligatoriamente conocer y utilizar la versión última y actualizada de las Hojas Técnicas de Productos, copias de las cuales se mandarán a quién las solicite.