BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-169 SG

LOW-VOC EPOXY RESIN BINDER FOR DECORATIVE MORTAR SCREEDS, TERRAZZO FLOOR SYSTEMS AND SEAL COATS

DESCRIPTION

Sikafloor®-169 SG is a 2-part epoxy resin binder for mortars, screeds, terrazzo floor systems and seal coats. It is used in the aesthetic Sikafloor® Terrazzo and DecoDur range in areas where normal to high mechanical loading and wear is expected.

USES

Sikafloor®-169 SG is used as a:
- Binder for coloured quartz mortars and screeds
- Coloured binder for Terrazzo floor systems
- Transparent sealer coat for broadcast coloured quartz mortar screeds and Sikafloor® DecoDur systems

Please note:
- The Product may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- Good aesthetics over the product's lifetime due to good yellowing resistance
- Helps to achieve good indoor air quality due to low VOC emissions
- Very versatile - can be used as coloured or transparent binder or sealer
- Resistant to many chemicals
- Low viscosity
- Good resistance to staining
- Low VOC content
- High mechanical resistance

PRODUCT INFORMATION

Chemical Base	Solvent-free epoxy	
Packaging	Container Part A	7.50 kg or 15 kg
	Container Part B	2.5 kg or 5 kg
	Container Part A + Part B	10 kg or 20 kg unipacks
Appearance / Colour	Part A	Clear, Lightly translucent
	Part B	Clear, Lightly amber
	Exposure to direct sunlight Note: When the 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.	
Shelf Life	12 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 +5 °C and +30 °C. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.

Density	Part A	1.12 ± 0.05	(EN ISO 2811-1)
	Part B	0.95 ± 0.05	

TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at +23 °C	up to 75	(EN ISO 868)
Abrasion Resistance	Cured 7 days at +23 °C	up to 45 mg (CS 10 / 1000 g / 1000 cycles)	(EN ISO 5470-1)

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B (by weight)	75 : 25
Consumption	Applied as a seal coat on Sikafloor® smooth substrates	0.15 kg/m²
	Applied as a seal coat on Sikafloor® broadcast substrates	0.6–0.9 kg/m²
	Applied as a binder plus filler	Refer to the individual System Data Sheet
	Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.	
Product Temperature	Maximum	+30 °C
	Minimum	+10 °C
Ambient Air Temperature	Maximum	+30 °C
	Minimum	+10 °C
Relative Air Humidity	Maximum	80 % r.h.
Dew Point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.	
Substrate Temperature	Maximum	+30 °C
	Minimum	+10 °C
Substrate Moisture Content	5% (concrete)	
Pot Life	25 minutes Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.	

Waiting Time / Overcoating

Before overcoating the Product, allow:

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

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

Applied Product Ready for Use	Light traffic	Full cure
	2 days	7 days

Note: 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.

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

APPLICATION INSTRUCTIONS

EQUIPMENT

MIXING EQUIPMENT
- Electric mixer

APPLICATION EQUIPMENT
- Roller
- Trowels
- Squegee

SUBSTRATE QUALITY

SUBSTRATE CONDITION
Cementitious substrates 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 contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
Substrate moisture content should not exceed 5%.

MIXING

2-PART MIXING PROCEDURE

1. Mix Part A (resin) for ~30 seconds.
2. Add Part B (hardener) to Part A.
3. IMPORTANT Do not mix excessively. Mix Part A + B continuously for ~3 minutes until a uniform mix is achieved.
4. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
5. 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.

2-PART + AGGREGATE MIXING PROCEDURE

1. Mix Part A (resin) for ~10 seconds with an electric double paddle mixer (300–400 rpm, > 700 W).
2. Add Part B (hardener) to Part A.
3. While mixing Parts A + B, gradually add the required filler or aggregates.
4. IMPORTANT Do not mix excessively. Mix for a further 2 minutes until a uniform mix is achieved.
5. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
6. 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.

APPLICATION

IMPORTANT
Protect from moisture
After application, protect the Product from damp, condensation and direct water contact for at least 24 hours.
Indentations in resin due to high temperature combined with high point loading
Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading may lead to indentations in the resin.
Binder
Apply the Product evenly over the surface with a trowel or squegee.
SEAL COAT
Pour the mixed Product onto the surface.
1. Note: The consumption is specified in Application Information.
2. Apply the Product evenly over the surface with a squeegee.
3. Back-roll the surface in two directions at right angles with a short pile roller.
   Note: Maintain a "wet edge" during application for a seamless finish.

CLEANING OF TOOLS

Clean all tools and application equipment with a suitable solvent immediately after use. Hardened material can only be removed mechanically.

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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