



BUILDING TRUST



PRODUCT DATA SHEET

Sikafloor®-298

Low VOC epoxy resin binder for decorative mortar screeds and seal coats (Formerly FLORQUARTZ AB BC)

DESCRIPTION

Sikafloor®-298 is a 2-part transparent epoxy resin binder for mortars, screeds floor systems and seal coats. It is used in the aesthetic Sikafloor® DecoDur range in areas where normal to high mechanical loading and wear is expected.

USES

Sikafloor®-298 may only be used by experienced professionals.

The Product can be used as a:

- Binder for coloured quartz mortars and screeds
- Transparent sealer coat for broadcast coloured quartz mortar screeds and Sikafloor® DecoDur systems

It is ideally suited for following application areas:

- Beverage industry
- Food courts
- Airport kitchen
- Food processing industries
- Meat processing areas
- Pharmaceutical units
- Training room

CHARACTERISTICS / ADVANTAGES

- Solvent free
- Transparent
- Low VOC content
- Good mechanical resistance
- Good chemical resistance
- Good abrasion resistance
- Low viscosity
- Easy application

PRODUCT INFORMATION

Composition	Solvent free epoxy	
Packaging	Part A+B pre-batched	6 kg set
	Part A	4 kg container
	Part B	2 kg container
Shelf life	12 months from date of production	
Storage conditions	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.	
Appearance and colour	Part A	Transparent liquid
	Part B	Light yellowish liquid
	Final floor appearance	Gloss finish

IMPORTANT

When the product is exposed to direct UV exposure (sun, lamp, skylight, etc.), there may be some discolouration and colour variation. This has no influence on the function and performance of the product.

IMPORTANT

The colour of base layer (Sikafloor®-295) must be chosen carefully, to reflect true colour of final finish required. If required, apply a test area.

IMPORTANT

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

IMPORTANT

Any partial broadcast of colour granules on coloured Sikafloor®-295 layer will look like patches. Use only full to excess broadcast.

IMPORTANT

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

Density	~1.09 kg/L (Part A+B mixed, +27 °C)	(EN ISO 2811-1)
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TECHNICAL INFORMATION

Shore D Hardness	~80 (28 days, +23 °C)	(ASTM D2240)
Abrasion resistance	~48 mg (CS10/1000/1000, 8 days, +27 °C)	(ASTM D4060)
Compressive strength	~70 N/mm ² (28 days, +23 °C)	(EN 196-1)
Tensile strength in flexure	~30 N/mm ² (28 days, +23 °C)	(EN 196-1)
Tensile adhesion strength	~3 N/mm ² (28 days, +30 °C)	(EN 1542)
Chemical resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information.	

SYSTEM INFORMATION

System structure

Floor application:

Layer	Product
Primer	Sikafloor®-167 Primer
Intermediate layer	Sikafloor®-295
Broadcast colour granules	Sika® Colour Quartz IN
Base seal coat	Sikafloor®-298
Final seal coat	Sikafloor®-298
Wearing coat	Sikafloor®-307 W

Coving application:

Layer	Product
Primer	Sikafloor®-167 Primer
Coving mortar	Sikafloor®-298 + Sika® Colour Quartz IN
Scratch coat	Sikafloor®-298
Wearing coat	Sikafloor®-307 W

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 4 : 2 (by weight)
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Consumption

Floor application:

Layer	Product	Consumption
Primer	Sikafloor®-167 Primer	1–2 × 0.2–0.3 kg/m ²
Intermediate layer	Sikafloor®-295	~1.7 kg/m ²
Broadcast colour granules	Sika® Colour Quartz IN	~3–4 kg/m ²
Base seal coat	Sikafloor®-298	~0.6 kg/m ²
Final seal coat	Sikafloor®-298	~0.4 kg/m ²
Wearing coat	Sikafloor®-307 W	~0.12 kg/m ²

Coving application:

Layer	Product	Consumption
Primer	Sikafloor®-167 Primer	1–2 × 0.2–0.3 kg/m ²
Coving mortar	1 pbw Sikafloor®-298 + 6 pbw Sika® Colour Quartz IN	As per coving size
Scratch coat	Sikafloor®-298	~0.4 kg/m ²
Wearing coat	Sikafloor®-307 W	~0.12 kg/m ²

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

Ambient air temperature	+10 °C min. / +30 °C max.		
Relative air humidity	80 % max.		
Dew point	Beware of condensation. The substrate and uncured applied floor material 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	+10 °C min. / +30 °C max		
Substrate moisture content	≤ 4 % parts by weight Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM D4263 (Polyethylene-sheet).		
Pot Life	Temperature	Pot life	
	+20 °C	~30 minutes	
	+30 °C	~25 minutes	
Waiting time to 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.

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.

FURTHER INFORMATION

- Sika Method Statement: Evaluation and preparation of surfaces for flooring systems
- Sika Method Statement: Mixing and application of flooring systems
- Sikafloor® cleaning concept

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

MIXING EQUIPMENT

- Electric single paddle mixer (300–400 rpm)

APPLICATION EQUIPMENT

- Squeegee
- Short / medium pile roller

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 free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
- High spots must be removed by grinding.
- Substrate must be levelled which will give uniform finish.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

IMPORTANT

Any dirt or foot print marks on broadcasted surface before application of transparent coating of Sika-floor®-298 may continue to leave impression.

IMPORTANT

Do not use high speed grinding, it will leave burring effect / black marks on the floor.

IMPORTANT

Construction joints and existing static surface cracks in substrate require pre-treating before full layer application. Use Sikadur® or Sikafloor® resins.

MIXING

IMPORTANT

Mix full units only

1. Mix Part A (resin) for ~10 seconds with a single paddle mixer (300–400 rpm).
2. Add Part B (hardener) to Part A.
3. (For coving mortar only) While mixing Parts A + B, gradually add the required filler or aggregates.
4. 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.

Note: Over mixing must be avoided to minimise air entrainment.

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APPLICATION

IMPORTANT

Protect from moisture

After application, protect the Product from damp, condensation and direct water contact for at least 24 hours.

IMPORTANT

Temporary heating

If temporary heating is required, do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish. For heating, use only electric powered warm air blower systems.

SEAL COAT

1. Pour the mixed Product onto the surface. 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.
4. Apply second coat after first coat has cured. Note: A seamless finish can be achieved if a "wet" edge is maintained during application.

CLEANING OF EQUIPMENT

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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Product Data Sheet

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