



BUILDING TRUST



PRODUCT DATA SHEET

Sikafloor®-285

Epoxy resin for base coving mortar (Formerly FLORSCREED CAB)

DESCRIPTION

Sikafloor®-285 is a two component system based on epoxy resin and hardener, specially designed to impart high mechanical strength and good chemical resistance. It is usually used for coving and detailing mortar. Interior use only.

USES

Sikafloor®-285 may only be used by experienced professionals.

Coving and detailing mortar for Sikafloor® Systems in application areas such as:

- Automobile industry
- Engineering industry
- Beverages and Foodstuff industry
- Textile and paper mills
- Precision engineering
- Electronics and Electrical industry
- Chemicals industry
- Warehouses, Garages and Aircraft hangers etc.
- Pharmaceutical industry

CHARACTERISTICS / ADVANTAGES

- Forms jointless coving
- Non dusting and easily cleanable
- Hygienic
- Very high mechanical strength
- Excellent adhesion to various substrates
- Faster curing
- Excellent resistance to chemicals

PRODUCT INFORMATION

Composition	Epoxy resin	
Packaging	Part A+B pre-batched	6.0 kg set
	Part A (Resin)	4.2 kg container
	Part B (Hardener)	1.8 kg container
	Sika® Quartz 02 IN*	Refer individual PDS
	*Supplied separately	
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 +10 °C and +30 °C.	

Appearance and colour	Part A (Resin)	Liquid / Light brownish
	Part B (Hardener)	Liquid / Transparent

TECHNICAL INFORMATION

Chemical resistance	Resistant to many chemicals. Contact Sika Technical Services for specific information.
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SYSTEM INFORMATION

System structure	Layer	Product
	Primer	Sikafloor®-167 Primer / Sikafloor®-161 HC
	Coving mortar	Sikafloor®-285 + Sika® Quartz 02 IN
	Smoothing putty layer	Sikafloor®-286
	Seal coat	Sikafloor®-295 / Sikafloor®-264 HC N + Sika Extender T / Sikafloor®-367

APPLICATION INFORMATION

Mixing ratio	Part A : Part B : Sika® Quartz 02 IN = 4.2 : 1.8 : 36
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Consumption	For 75 mm × 75 mm coving:		
	Layer	Product	Consumption
	Primer	Sikafloor®-167 Primer / Sikafloor®-161 HC	0.05 kg/m
	Base coving mortar	Sikafloor®-285 + Sika® Quartz 02 IN	2.5 kg/m
	Smoothing putty layer	Sikafloor®-286	0.06 kg/m
Seal coat	Sikafloor®-295 / Sikafloor®-264 HC N + Sika Extender T / Sikafloor®-367	0.04 kg/m per coat	

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. / +35 °C max.
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Relative air humidity	80 % max.
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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. Low temperatures and high humidity conditions increase the probability of blooming.
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Substrate temperature	+10 °C min. / +35 °C max.
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Substrate moisture content	≤ 4 % parts by weight The following test methods can be used: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).
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Pot Life	Temperature	Pot life
	+20 °C	~20 min
	+30 °C	~25 min

Curing time	Temperature	Curing time
	+20 °C	12 hours
	+30 °C	8 hours

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 to 400 rpm)
- Electric double paddle mixer (>700 W, 300 to 400 rpm)

APPLICATION EQUIPMENT

- Flat, round edge steel trowel
- Coving tool

SUBSTRATE QUALITY / PRE-TREATMENT

IMPORTANT

Incorrect treatment of cracks

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

- 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.
- Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or grinding equipment to remove cement laitance and achieve an open textured surface gripping surface profile suitable for the product thickness.
- High spots can be removed by grinding. Weak concrete must be removed and surface defects such as blow holes 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.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum extraction equipment.

MIXING

1. Prior to mixing all parts, mix separately Part A (resin) using a low speed single paddle electric stirrer (300–400 rpm).
2. Add Part B (hardener) to Part A and mix part A + B continuously for 2.0 minutes until a uniform mix has been achieved. When Parts A and B have been mixed, using an electric double paddle mixer (> 700 W) or other similar equipment (free fall mixers must not be used) gradually add the required quantity of Sika® Quartz-02 IN.
3. Mix for a further 1.0 minutes until a uniform mix has been achieved.
4. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth consistent mix. Excessive mixing must be avoided to minimise air entrainment.
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. Mix full units only. Mixing time for A+B+Sika® Quartz-02 IN = ~4.0 minutes.

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.

1. For heating, use only electric powered warm air blower systems.

IMPORTANT

Temporary moisture barrier

If the substrate moisture content measured with the CM-method is > 4 % by weight, apply a temporary moisture barrier consisting of Sikafloor® EpoCem®.

1. Contact Sika technical services for more information.

PRIMER APPLICATION

1. Pour mixed Sikafloor®-167 Primer / -161 HC onto the prepared substrate and apply by short-pile nylon roller until saturation of the substrate is achieved.

Ensure a continuous, pore free coat covers the substrate. If necessary, apply two priming coats.

Note: Confirm waiting /overcoating time has been achieved before applying mixed Sikafloor®-285.

COVING MORTAR

1. Apply the Sikafloor®-285 onto the primed surfaces and form a cove to the required dimensions and radius using a coving tool.

Note: A seamless finish can be achieved if a 'wet on wet' application is maintained.

CLEANING OF EQUIPMENT

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

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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