

PRODUCT DATA SHEET

Sikafloor® EpoCem® Modul

Water-based epoxy resin primer

DESCRIPTION

Sikafloor® EpoCem® Modul is a 2- part water-based epoxy resin primer.

USES

Sikafloor® EpoCem® Modul may only be used by experienced professionals.

Sikafloor® EpoCem® Modul is used as a primer and adhesion promoter on the following substrates:

- New or old concrete floors
- Cementitious screeds
- Sikafloor® EpoCem® levelling layers

Sikafloor® EpoCem® Modul is used as a primer for Sikafloor®-81 EpoCem® and Sikafloor®-82 EpoCem®. Please note:

- The Product may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- Fast installation
- Easy to apply
- Especially suitable for highly absorbent substrates
- Very good bond strength over a wide temperature range
- Odourless

PRODUCT INFORMATION

Chemical base	Water-based epoxy	
Packaging	Container Part A	1.14 kg
	Container Part B	2.86 kg
	Container Part A + Part B	4 kg
	Refer to the current price list for available packaging variations.	
Colour	Part A	White
	Part B	Transparent yellow
	Cured colour	Yellowish
Shelf life	Part A	12 months from date of production
	Part B	12 months from date of production
	Always refer to the best-before date of the individual packaging.	
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 the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	

Density	Part A	1.05 kg/l	(EN ISO 2811-1)
	Part B	1.03 kg/l	
Colour	Part A	Liquid	
	Part B	Liquid	

TECHNICAL INFORMATION

Tensile Adhesion Strength	> 1.5 N/mm ² (failure in concrete)	(EN 1542)
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APPLICATION INFORMATION

Mixing ratio	Part A : Part B : Part C (by weight)	1.14 : 2.86
Consumption	Unfilled	0.2–0.3 kg/m ²
Layer Thickness	25 µm per coat dry film thickness (dft)	
Product Temperature	Maximum	+35 °C
	Minimum	+10 °C
Ambient Air Temperature	Maximum	+35 °C
	Minimum	+10 °C
Relative Air Humidity	Maximum	80 % r.h.
	Minimum	20 % r.h.
Dew Point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above the 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	+35 °C
	Minimum	+10 °C
Substrate Moisture Content	Can be applied on green or damp concrete, without any standing water. Although the Product can be applied onto green concrete surfaces (> 24 hours), allow at least 3 days for early shrinkage of concrete to occur in order to prevent concrete shrinkage cracks from appearing on the screed surface.	
Pot Life	+10 °C	120 minutes
	+20 °C	90 minutes
	+30 °C	45 minutes
Waiting Time / Overcoating	Before applying Sikafloor®-81 EpoCem® or Sikafloor®-82 EpoCem® onto Sikafloor® EpoCem® Modul allow:	
	Substrate temperature	Minimum Maximum
	+10 °C	12 hours 24 hours
	+20 °C	4 hours 12 hours
	+30 °C	3 hours 6 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 DOCUMENTS

Refer to the following method statements:

- Sika Method Statement — Evaluation and preparation of surfaces for flooring systems
- Sika Method Statement 8508410 Sikafloor® mixing and application

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

SUBSTRATE PREPARATION

- Abrasive blast cleaning equipment
- Planing machine
- Scarifying machine

MIXING

- Electric single-paddle mixer (300 to 400 rpm)
- Scraper
- Clean mixing containers

APPLICATION

- Short-pile nylon roller

SUBSTRATE PREPARATION

IMPORTANT

Reduced service life due to incorrect treatment of cracks

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

1. For static cracks, ensure the width is suitable for overcoating with Sikafloor® EpoCem® Modul.
2. For dynamic cracks, ensure the movement is within the movement capacity of Sikafloor® EpoCem® Modul.

TREATMENT OF JOINTS AND CRACKS

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

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.

MECHANICAL SUBSTRATE PREPARATION IMPORTANT

Surface defects due to voids in the substrate

Voids and blow holes in the substrate will weaken the surface and damage the covering Product if not repaired during the preparation process.

1. Fully expose blow holes and voids during surface preparation to identify the required repairs.
1. Remove weak cementitious substrates.
2. Prepare cementitious substrates mechanically using abrasive blast cleaning, abrasive planing or scarifying equipment to remove cement laitance.
3. Where thin layer resins are going to be applied, remove high spots by grinding.
4. Remove all dust, loose and friable material from the application surface with industrial vacuuming equipment.
5. Level the surface or fill cracks, blow holes and voids with products from the Sikafloor®, Sikadur® and Sikagard® range of materials.

For additional information on products for levelling and repairing defects, contact Sika® Technical Services.

SUBSTRATE PREPARATION OF NON-CEMENTITIOUS SUBSTRATES

For information on substrate preparation of non-cementitious substrates, contact Sika® Technical Services.

MIXING

TWO-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.

APPLICATION

IMPORTANT

Protect from moisture

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

IMPORTANT

Damaged finish due to heating with fossil fuel heaters

Fossil fuel heaters powered by gas, oil or paraffin produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.

1. For temporary heating, use only electrically powered warm air blower systems. Do not use gas, oil, paraffin or other fossil fuel heaters.

IMPORTANT

Applying the Product after the end of the pot life

The end of the pot life is not noticeable. Continuing to apply the Product after the end of the pot life may result in the applied material not curing properly.

1. Monitor the pot life closely taking into consideration the environmental conditions.
2. Discard materials that remain after the pot life has elapsed.

STANDARD PRIMER APPLICATION

1. Pour the mixed Product onto the substrate. Note For consumption, refer to Application Information.
2. Apply the Product evenly over the surface with a short pile roller or a squeegee.
3. Back-roll the surface in two directions at right angles with a fleece roller. Note Maintain a "wet edge" during application to achieve a seamless finish.

CLEANING OF TOOLS

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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 can always refer to the most recent version of the local Product Data Sheet for the relevant product, available on our website. The information in any downloaded version is valid as of the time of download.

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Product Data Sheet

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