

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.

A primer and adhesion promoter on the following substrates:

- New and old concrete
- Cementitious screeds
- Sikafloor® EpoCem® levelling layers

As a primer for:

- Sikafloor®-81 EpoCem® and Sikafloor®-82 EpoCem®

CHARACTERISTICS / ADVANTAGES

- Easy and fast application
- Especially suitable for highly absorbent substrates
- Water based and odourless
- Very good bond strength over a wide temperature range

PRODUCT INFORMATION

Composition	Water based epoxy	
Packaging	Part A	1,14 kg
	Part B	2,86 kg
	Part A+B	4 kg
	Refer to current price list for packaging variations	
Appearance and colour	Part A	White liquid
	Part B	Translucent yellowish liquid
	Part A+B	Yellowish
Shelf life	12 months from date of production (all parts)	
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.	
Density	Part A	~1,10 kg/l
	Part B	~1,04 kg/l
	Mixed resin	~1,05 kg/l
	All Density values at +27 °C.	

TECHNICAL INFORMATION

Tensile adhesion strength	> 1,5 N/mm ²	(ISO 4624)
---------------------------	-------------------------	------------

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 1 : 2,5 (by weight)		
Ambient air temperature	+10 °C min. / +35 °C max.		
Consumption	1–2 coats × 0,2–0,3 kg/m ² These figures are theoretical and does not include for any additional material required due to surface porosity, surface profile, variation in level or wastage, etc.		
Layer thickness	~25 µm per coat dry film thickness (dft)		
Relative air humidity	85 % 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.		
Substrate temperature	+10 °C min. / +35 °C max.		
Substrate moisture content	Can be applied on matt, damp concrete when overcoating with the Sikafloor® EpoCem® range.		
Pot Life	Temperature	Time	
	+10 °C	~120 minutes	
	+20 °C	~90 minutes	
	+30 °C	~45 minutes	
Curing time	Substrate temperature	Foot traffic	
	+10 °C	~12 hours	
	+20 °C	~6 hours	
	+30 °C	~4 hours	
No specific additional curing measures are required. Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.			
Waiting time to overcoating	Before applying Sikafloor®-81 EpoCem® / 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	
Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.			

APPLICATION INSTRUCTIONS

EQUIPMENT

Mixing Tools

- Single paddle electric stirrer (300–400 rpm).

SUBSTRATE QUALITY / PRE-TREATMENT

The concrete substrate must be sound and of sufficient compressive strength (minimum 20 N/mm²) with a minimum tensile adhesion strength of 1,5 N/mm².

The substrate can be damp but must be free of standing water (no puddles). Also be free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

Cementitious substrates must be prepared mechanically using suitable abrasive blast cleaning or planing / scarifying equipment to remove cement laitance and achieve an open textured 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.

PRODUCT DATA SHEET

Sikafloor® EpoCem® Modul
December 2022, Version 02.01
020814010010000001

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

Prior to mixing all parts, mix part A (resin) using a low speed single paddle electric stirrer. Add part B (hardener) to part A and mix part A + B continuously for 3,0 minutes until a uniform mix has been achieved. To ensure thorough mixing pour materials into a clean container and mix again for at least 1,0 minute to achieve a smooth consistent mix. Excessive mixing must be avoided to minimise air entrainment. During the final mixing stage, scrape down the sides and bottom of the mixing container with a straight edge trowel or spatula at least once to ensure complete mixing. Mix full units only. Mixing time for A+B = ~4,0 minutes

APPLICATION

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.

Prior to application, confirm substrate moisture content, relative air humidity and dew point. Pour mixed primer onto the prepared substrate and apply by brush, roller or squeegee then back roller in two directions at right angles to each other. Ensure a continuous, pore free coat covers the substrate. If necessary, apply two priming coats. Confirm primer waiting /overcoating time has been achieved before applying subsequent products.

CLEANING OF EQUIPMENT

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

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.

IMPORTANT CONSIDERATIONS

- After application product must be protected from damp, condensation and water contact (rain) while reaction and curing takes place.

Sika Danmark A/S
Hirsemarken 5
3520 Farum
Tlf. +45 48 18 85 85
www.sika.dk



PRODUCT DATA SHEET
Sikafloor® EpoCem® Modul
December 2022, Version 02.01
020814010010000001

- At low temperatures and / or high humidity, the curing time will increase.
- Continuously monitor the pot life of the mixed material as the end of pot life is not visibly noticeable.
- Discard any material over the pot life recommendations.

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.

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

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

SikafloorEpoCemModul-en-DK-(12-2022)-2-1.pdf