PRODUCT DATA SHEET

Sikafloor® EpoCem® Modul

Water based epoxy resin primer

PRODUCT 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

Chemical Base	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 / 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/mm²	(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/m² These figures are theoretical and do 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 / 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.

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 TOOLS

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

LIMITATIONS

- After application product must be protected from damp, condensation and water contact (rain) while reaction and curing takes place.
- 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 after the pot life has expired.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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.

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.

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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