

PRODUCT DATA SHEET

SikaRepair® EpoCem Modul HC

TWO PARTS WATER DISPERSED EPOXY RESIN PRIMER

DESCRIPTION

Solvent-free, water dispersed two part primer based on epoxy resin.

USES

SikaRepair® EpoCem Modul HC may only be used by experienced professionals.

As a primer and adhesion promoter on properly prepared:

- New concrete
- Cementitious screeds
- Hardened concrete
- EpoCem levelling layers
- As a primer for: Sikafloor®-81 EpoCem® New HC and Sikagard®-720 EpoCem® HC

CHARACTERISTICS / ADVANTAGES

- Easy and fast to apply
- Especially suitable for highly absorbent substrates
- Water dispersed and odourless
- Very good bond strength over its whole application temperature range
- Environmentally friendly

PRODUCT INFORMATION

Chemical Base	Water dispersed epoxy.	
Packaging	Part A :	1.14 kg
	Part B :	2.86 kg
	Part A + B :	4.0 kg ready to mix units
Appearance / Colour	Part A :	White liquid
	Part B :	Yellowish liquid
	Part A + B :	Yellowish
Shelf Life	12 months from date of production	
Storage Conditions	Store properly in original, unopened and undamaged, sealed containers, in dry conditions, at temperatures between +15 °C and +35 °C. Protect from frost.	

Density	Part A :	~1.1 kg/L
	Part B :	~1.04 kg/L
	Mixed resin :	~1.05 kg/L

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 28.5 : 71.5 (by weight)	
Ambient Air Temperature	+10 °C min. / +35 °C max.	
Consumption	0.25 - 0.3 kg/m ² /coat. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variation in level or wastage, etc.	
Layer Thickness	D.F.T.: ~25 µm per coat	
Relative Air Humidity	85% r.h. max.	
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 surface of the applied product.	
Substrate Temperature	+10 °C min. / +35 °C max.	
Substrate Moisture Content	Can be applied on damp concrete when overcoating with the Sikafloor®EpoCem® range.	
Pot Life	Temperature	Time
	+10 °C	~90 min
	+20 °C	~60 min
	+30 °C	~45 min
Curing Time	Substrate Temperature	Foot Traffic
	+10 °C	~12 h
	+20 °C	~6 h
	+30 °C	~4 h
	No specific additional curing measures are required. All times are approximate and will be affected by changing ambient and substrate conditions.	
Waiting Time / Overcoating	Before applying Sikafloor®-81 EpoCem® New HC / Sikagard®-720 EpoCem® HC onto SikaRepair® EpoCem Modul HC allow:	
	Substrate temperature	Minimum Maximum
	+10 °C	12 h 24 h
	+20 °C	6 h 12 h
	+30 °C	4 h 6 h

APPLICATION INSTRUCTIONS

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) and be free of all contaminants such as dirt, oil, grease, coatings and surface treatments etc.

Concrete substrates must be prepared mechanically using abrasive blast cleaning, scarifying or grinding equipment to remove cement laitance and achieve an open textured surface to suit the requirements of the next layer(s).

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.

High spots can be removed by grinding.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

MIXING

Prior to mixing, thoroughly stir part A (resin) mechanically. When all of part B (hardener) has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved.

To ensure thorough mixing, after mixing for 3 minutes, pour mixed material into another container carefully scraping residue material from the sides with a spatula then mix again to ensure complete and thorough mixing.

Excessive mixing must be avoided to minimise air entrainment.

Mixing Tools

SikaRepair® EpoCem Modul HC must be thoroughly mixed using low speed electrical equipment (300–400 rpm).

APPLICATION

Apply SikaRepair® EpoCem Modul HC by suitable brush, roller or squeegee and then back roller in two directions at right angles to each other.

Caution: The end of the product's potlife is not visibly noticeable. Use within the specified times. Discard material not used within these times.

CLEANING OF TOOLS

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

LIMITATIONS

- At low temperatures and / or high humidity, the curing time will increase.
- Protect product from rain / water while reaction and curing takes place.
- Make sure to monitor and control the pot life of the mix as the end of pot life is not visibly noticeable. Discard any material at the pot life limits indicated for the existing application conditions!

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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.

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.

ECOLOGY

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.

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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