

PRODUCT DATA SHEET

Sikafloor®-80 EpoCem® Primer

WATER BASED EPOXY RESIN PRIMER

DESCRIPTION

Sikafloor®-80 EpoCem® Primer is a 2- part water based epoxy resin primer.

USES

Sikafloor®-80 EpoCem® Primer is a construction products which only should be applied by trained applicators.

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
- Environmentally friendly

PRODUCT INFORMATION

| | | |
|----------------------------|--|------------------------------|
| Composition | Water based epoxy | |
| Packaging | Part A | 1.6 kg x 2 container |
| | Part B | 4.0 kg x 2 container |
| | Part A + B | 5.6 kg ready to mix units |
| Appearance / Colour | Part A | White liquid |
| | Part B | Translucent yellowish liquid |
| | Mixed colour | Yellowish |
| Shelf life | 12 months from date of production | |
| Storage conditions | The product must be stored in original, unopened and undamaged sealed containers in dry conditions at temperatures between +5°C and +35°C. Protect from frost. | |
| Density | Part A | ~1.10 kg/l (at +27 °C) |
| | Part B | ~1.04 kg/l (at +27 °C) |
| | Mixed resin | ~1.05 kg/l (at +27 °C) |

TECHNICAL INFORMATION

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|---------------------------|-------------------------|------------|
| 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 × 0.25-0.4 kg/m ² (dependent on substrate porosity). 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 | Dry film thickness ~25 µm per coat | | |
| Relative Air Humidity | 85 % 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 matt, damp concrete when overcoating with the Sika-floor® 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. All times are approximate and will be affected by changing ambient and substrate conditions. | | | |
| Waiting Time / Overcoating | Before applying Sikafloor®-81 EpoCem® / Sikafloor®-82 EpoCem® onto Sikafloor®-80 EpoCem® Primer allow: | | |
| | Substrate temperature | Minimum | Maximum |
| | +10 °C | 12 hours | 24 hours |
| | +20 °C | 6 hours | 12 hours |
| | +30 °C | 4 hours | 6 hours |

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 minimize air entrainment.

Mixing Tools

Sikafloor®-80 EpoCem® Primer must be thoroughly mixed using low speed electrical equipment (300 - 400 rpm).

APPLICATION

Apply Sikafloor®-80 EpoCem® Primer 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 EQUIPMENT

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

IMPORTANT CONSIDERATIONS

- At low temperatures and / or high humidity, the curing time will increase.
- Protect product from rain / water while reaction and curing takes place.
- Monitor pot life as described in application.

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.

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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.

DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / j type SB) is 500 g/l (Limits 2010) for the ready to use product. The maximum content of Sikafloor®-80 EpoCem® Primer is < 500 g/l VOC for the ready to use product.

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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