

PRODUCT DATA SHEET

Sikagard®-720 EpoCem®

3-part superfine epoxy-cement sealing mortar

DESCRIPTION

Sikagard®-720 EpoCem® is a three part, epoxy modified cementitious, thixotropic, fine textured mortar for levelling and finishing of concrete or mortar surfaces.

USES

- As sealing mortar (0.5 – 2.0 mm) on concrete and mortar
- For repairs to fair faced concrete in chemically aggressive environment
- As pore sealer on horizontal and vertical surfaces
- As temporary moisture barrier (recommended thickness min. 2 mm)

CHARACTERISTICS / ADVANTAGES

- An ideal surface preparation for the subsequent application of Sika epoxy products.
- Ideal preparation for smooth surface finishes.
- Minimum delays to follow-up applications of Sika epoxy products.
- Fast and easy to apply.
- Impervious to liquids but permeable to water vapour (allows substrate to “breathe”).
- Excellent adhesion to dry or damp concrete.
- Suitable for interior and exterior use.

PRODUCT INFORMATION

Chemical base	Epoxy modified cementitious mortar	
Packaging	Pre-batched 21 kg sets	
	Part A	1.14 kg container
	Part B	2.86 kg container
	Part C	17 kg bags
Appearance / Colour	Part A-resin	White liquid
	Part B - hardener	Transparent yellow liquid
	Part C - filler	Aggregate powder
	Finished colour	Grey

Shelf life	Part A and Part B	12 months(*)
	Part C	6 months(*)

(*)from date of production if stored in original, unopened and undamaged sealed packaging

Storage conditions	The product must be stored in dry conditions at temperatures between +5 °C and +30 °C. Part A & part B: Protect from frost Part C: Protect from humidity
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TECHNICAL INFORMATION

Compressive Strength	≥ 35 N/mm ² (28 days)	(ASTM C109 / C349)
Tensile Strength in Flexure	≥ 4.5 N/mm ² (28 days)	(ASTM C348)
Tensile Adhesion Strength	≥ 1.5 N/mm ² (28 days, concrete substrate with proper primer)(ASTM D7234)	

APPLICATION INFORMATION

Mixing ratio	Parts A : B : C = 1 : 2.5 : 14-15 (by weight)	
Consumption	~2.0 kg/m ² for 1 mm thickness This figure is theoretical and does not take into account any additional material required due to surface porosity & profile, variations in level or wastage.	
Layer Thickness	0.5 mm min. / 2.0 mm max.	
Ambient Air Temperature	+10 °C min. / +35 °C max.	
Substrate Temperature	+10 °C min. / +35 °C max.	
Pot Life	~ 30 minutes (at +30 °C)	
Fresh mortar density	~2.0 kg/l (at +20° C)	

SYSTEM INFORMATION

System Structure	The system configuration as described must be fully complied with and may not be changed.	
	Primer	Sikafloor® Repair EpoCem Module
	Render	Sikagard®-720 EpoCem®
	Top coating (optional)	Suitable product from the Sikafloor® and Sikagard® range

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 CONSIDERATION

- The incorrect assessment and treatment of cracks in the substrate can lead to a reduced service life and reflective cracking.
- Pre-treat cracks as follows before application of Sikagard®-720 EpoCem®. Static Cracks: Prefill and level with Sikadur® or Sikafloor® epoxy resin. Dynamic Cracks (> 0.4 mm): To be assessed on site and if necessary, apply a stripe coat of elastomeric material or design as a movement joint.
- Prevent premature drying by protecting from strong

winds and do not expose to direct sun light while in an unhardened condition.

- When product is exposed to direct sunlight, there may be some discolouration and colour variation, this has no influence on the function and performance of the mechanical properties.
- For external applications, apply product on a falling temperature. If applied during rising temperatures "pin holing" can occur.
- Applications under extreme conditions (high temperature and low humidity) which can cause fast drying of the product should be avoided.
- When overlaying with PMMA screeds, the wet surface of Sikagard®-720 EpoCem® during application must be fully broadcast with kiln dried quartz sand 0.4–0.7 mm granulometry.
- The temporary moisture barrier effect is limited in time without additional preparation. Contact Sika Technical Services for additional information.

- Always verify the surface moisture content if more than 5–7 days have passed since 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

SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 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). Dust, loose and friable materials can be removed preferably by brush or industrial vacuum equipment.
- Weak concrete must also 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 products from the Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikagard®-720 EpoCem®.

MIXING

IMPORTANT:

- Mix full units only
- Do not add water

Requirement: Electric single or double paddle mixer (300–400 rpm) with helical paddle or forced action / rotating pan / double paddle or trough type mixer.

1. Before mixing, shake Part A (white liquid) briefly until uniformly mixed.
2. Pour mixed Part A into Part B container and shake vigorously for at least 30 seconds.
3. Pour the mixed liquid (Parts A+B) into the mixing container.
4. Stir Parts A+B slowly in the container with the mixing equipment and gradually add Part C.
5. Mix for a further 3.0 minutes until a uniform lump free mix has been achieved.

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APPLICATION

Ensure to apply proper primer before placing the mixed Sikagard®-720 EpoCem® onto the matt damp substrate. Spread evenly to the required thickness with a trowel or spatula. Freshly applied Sikagard®-720 EpoCem® must be protected from condensation and water for at least 24 hours.

CLEANING OF TOOLS

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

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 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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