

# Sikagard<sup>®</sup>-720 EpoCem

## Superfine epoxy cement sealing mortar and temporary moisture barrier

Construction

<b>Description</b>	Sikagard-720 EpoCem is a 3-component epoxy-modified cementitious sealing and levelling mortar, suitable for application to most mineral based substrates. It's specific balanced formulation ensures that the properties of the hydrated cement are both complemented and enhanced by the integral epoxy mortar.
<b>Uses</b>	Used on both vertical and horizontal surfaces of concrete, mortar or stone, the thixotropic mortar can be applied as a thin layer coating, 0.5 – 2 mm thick or as a scraping/levelling mortar to fill in blow holes, shallow honeycombing and other surface irregularities. It's ability to provide a temporary moisture barrier provides an ideal substrate for subsequent epoxy coatings.
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• Waterproof yet permeable to water vapour, allows the substrate to "breathe".</li> <li>• Excellent adhesion to dry or damp substrates.</li> <li>• Fast and easy to apply to sound prepared substrates.</li> <li>• Solvent free and virtually odourless.</li> <li>• Ideal surface preparation with the minimum of delay for the subsequent application of other appropriate Sika epoxy products.</li> <li>• High abrasion resistance.</li> <li>• Free of chloride.</li> <li>• Similar thermal and elastic properties to concrete.</li> <li>• Good adhesion after long-term water immersion.</li> <li>• Suitable for interior or exterior use.</li> </ul>
<b>Storage and Shelf Life</b>	Stored in the original sealed containers within the temperature range of +5°C to +35°C, this product will keep for a minimum of 12 months.
<b>Instructions for Use</b>	
<b>Surface Preparation</b>	The substrate must be sound, clean and free from oils, grease or surface contaminants. All loose materials and surface laitance must be removed. For larger areas shot blasting, high pressure water blasting or scabbling is recommended. On small areas needle gunning or bush hammering can be effective. The tensile strength of the substrate should be at least 1.5 MPa. Prewetting the substrate is not necessary except on very absorbent substrates and/or when exposure to intense sunlight is probable. There should be no visible or standing water.
<b>Mixing</b>	Shake Component A (white liquid) briefly and pour into Component B (plastic container) and shake vigorously for 30 seconds. Pour the mixture (A + B) into a 25-30 litre pail and add Component C. Mix thoroughly for at least 3 minutes using a low speed electrically driven paddle/stirrer until a smooth homogenous consistency is achieved.
<b>Application</b>	Sikagard-720 EpoCem can be applied by steel trowel, spatula etc., to the prepared dry or damp substrate. Work the material well into the substrate to ensure complete filling of voids etc., and intimate surface contact. Following initial set a fine surface finish can be achieved by finishing with a damp sponge or suitable brush. A fine gripping surface finish is recommended for subsequent epoxy coatings.
<b>Cleaning</b>	Clean all tools with water immediately after use. Once cured, Sikagard-720 EpoCem can only be removed mechanically.

## Technical Data (Typical)

<b>Form</b>	Part A: White liquid Part B: Dark grey liquid Part C: Grey powder Mixed: Thixotropic flowable mortar			
<b>Density</b>	2.0 kg/litre approx. (mixed)			
<b>Mix ratio (by mass)</b>	Component A : 1 Component B : 2.75 Component C : 15 – 17.7 (depending on required consistency)			
<b>Rate of reaction (@ 75% relative humidity)</b>		10°C	20°C	30°C
	Potlife (approx. for 23 kg mix)	45 mins	35 mins	25 mins
	Curing times			
	Ready for overprinting:	1 day	18 hours	12 hours
	Light loading permitted:	3 days	2 days	1 day
	Fully cured:	14 days	7 days	5 days
<b>Consumption</b>	Approx. 2.5 to 3.5 kg/m <sup>2</sup> for thickness of 1.0 to 1.5 mm.			
<b>Bond strength</b>	Greater than 1.5 MPa on prepared concrete substrate.			
<b>Limitations on application</b>	Maximum coating thickness:	2 mm		
	Minimum substrate temperature:	+8°C		
	Maximum substrate temperature:	+25°C		
<b>Packaging</b>	Part A:	1.07 kg plastic bottle		
	Part B:	2.93 kg plastic bottle		
	Part C:	19 kg paper bag		

## Important Notes

- ON NO ACCOUNT SHOULD WATER BE ADDED TO THE MIX.
- Curing: Sikagard-720 EpoCem is insensitive to wind during curing, but substrates should be primed with EpoCem Module (Part A + B) before application if very absorbent or if exposure to intense sunlight is probable. The material can be exposed to extreme weather conditions –rain, cold etc. after 6 hours following correct application.
- Sikagard-720 EpoCem should not be used to bridge “live” cracks, joints etc.
- Sikagard-720 EpoCem is overpaintable with solvent free and low solvent containing products after the curing times given. A more extended curing period is necessary with high solvent products. Consult our Technical Department for further information.
- Do not apply Sikagard-720 EpoCem to substrates with rising temperature, or substrates that will rise in temperature with six (6) hours after application. Failure to observe this precaution may result in blistering of the coating.

## Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come into contact with foodstuffs or food utensils, and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period by washing with soap and warm water. A full material safety data sheet is available from Sika on request.

