



SikaGard[®] 720 EpoCem[®]

Epoxy Cement Waterproof Levelling Mortar

Technical Data Sheet

DESCRIPTION

SikaGard 720 EpoCem is a three component epoxy modified cementitious mortar.

USES

- * Levelling concrete, mortar or stone surfaces.
- * Repairing minor defects.
- * Protecting concrete in aggressive environments.
- * A pore sealer.
- * Temporary dpm (+2.0 mm).
- * For exterior and interior use.

ADVANTAGES

- * Pre batched for quality.
- * Good chemical resistance.
- * Compatible with Sika[®] FerroGard[®] corrosion inhibitors.
- * Easy to mix and apply.
- * Excellent bond to concrete.
- * Contains no chloride admixtures.
- * Waterproof.
- * Overcoatable with Sika concrete and floor coatings.
- * Low shrinkage.
- * Vapour permeable.
- * Good mechanical properties.
- * Does not require overcoating.
- * Reduced curing practice.
- * Overcoatable next day.

Technical Data (typical)

Mixed colour:	Grey
Mixed wet density:	2.0 kg/litre
Application temperature:	+5°C min, +30°C max (Substrate and ambient)
Application thickness per layer:	0.5 mm minimum 3.0 mm maximum Small areas up to 5.0 mm

MECHANICAL PROPERTIES 28 days @ 20°C

Compressive strength:	40 N/mm ²
Flexural strength:	9.0 N/mm ²
Bond strength (tensile):	2.5 - 3.5 N/mm ² (Substrate failure)
E-Modulus (static):	12.6 kN/mm ²
Coefficient of thermal expansion:	18 x 10 ⁻⁶ °C ⁻¹
Index of resistance to diffusion of water vapour (μH₂O):	850
Index of resistance to diffusion of carbon dioxide (μCO₂):	34,000
Water absorption coefficient A:	0.03 kg/m ² x h ^{0.5}
'Working time': (@23°C)	40 minutes

All above values are approximate.

SURFACE PREPARATION

Prepare and clean all concrete surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination and all existing coatings are removed and all blowholes and honeycombed areas are exposed.

MIXING

Add component A to component B, shake well for approximately 30 seconds. Pour binder (component A+B) into mixing vessel, add component C and mix thoroughly with suitable low-speed electric mixer for 3 minutes.

SikaGard 720 EpoCem should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

APPLICATION

The surface should be pre-wetted to a saturated surface dry condition before application.

Prefill localised cavities/pores, minor defects etc with **SikaGard 720 EpoCem** before applying final sealing/levelling coat.

Apply by spatula or trowel and finish with a moist neoprene sponge or brush.

IMPORTANT CONSIDERATIONS

- * Do not add water.
- * Do not finish surface with solvent or water.
- * Apply only to prepared, sound substrates.
- * Protect from drying winds and direct sun.
- * Allow repair mortar to harden between applications.
- * Protect from rain for 24 hours.
- * Protect freshly applied material from freezing.

CLEANING

Remove **SikaGard 720 EpoCem** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

2.0 kg/m²/mm (2.0 kg/litre)
Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).



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 in 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, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

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