



PRODUCT DATA SHEET

Edition 12.2017/v1
CSC Master Format™ 07 16 13
POLYMER MODIFIED CEMENT WATERPROOFING

Sikagard®-75 EpoCem®CA

EPOXY/CEMENT, RESURFACING AND PORE-FILLING MORTAR

Description	Sikagard®-75 EpoCem®CA is a three-component, epoxy-modified, cementitious, solvent-free, moisture-insensitive, structural resurfacing and pore-filling mortar. It is specially formulated for vertical levelling and structural reprofiling of damp, “green” or saturated surface dry concrete.
Where to Use	<ul style="list-style-type: none"> ▪ For resurfacing 0.5 - 3 mm (20 - 120 mils) thick: ▪ On green or damp concrete, mortar and stone. ▪ As a thin-film sealer coat for vertical and horizontal surfaces. ▪ As a temporary moisture barrier prior to the application of polymer coatings [minimum 2 mm (80 mils) thickness]. Note: Sikagard®-75 EpoCem®CA must be sealed with a suitable Sika® epoxy coating to form a permanent vapour barrier. Contact Sika Canada for recommendations. ▪ For repairing spalled and pitted concrete, blowholes and honeycombing. ▪ Ideal for the repair of damp or saturated substrates such as sewage treatment plants, water treatment plants, tanks, tunnels, drains, etc. ▪ On grade, above and below grade on concrete.
Advantages	<ul style="list-style-type: none"> ▪ Economical structural repair and resurfacing compound. ▪ Fast and easy to apply. Sprayable. ▪ Solvent-free and virtually odourless. ▪ Can be overcoated with polymer based (epoxy) coatings after 24 hours. ▪ Eliminates effects of osmotic blistering. ▪ Self-priming. ▪ Waterproof. ▪ Permeable to water vapour (allows substrate to “breathe”). ▪ Compatible with coefficient of thermal expansion of concrete. ▪ Excellent adhesion to damp concrete. ▪ Equally suitable for interior and exterior use.

Technical Data			
Packaging	23 kg (51 lb) unit		
Colour	Dark Grey, when mixed		
Yield	11.3 L (3 US gal.) will cover approx. 5.5 m ² /unit (59 ft ² /unit) when applied to its required thickness of 2 mm (80 mils)		
Shelf Life	1 year in original, unopened packaging. Store dry at temperatures between 5 and 32 °C (41 and 89 °F). Protect from freezing and high temperatures. If frozen, discard.		
Mix Ratio by weight	Component A	1.07 kg	
	Component B	2.93 kg	
	Component C	16 - 19 kg depending on consistency required	
Application Time	10 °C* (50 °F)	20 °C* (68 °F)	30 °C* (86 °F)
Pot life (A+B+C)	45 min**	35 min**	25 min**
Top coat with epoxy coating	1 day	18 h	12 h
Light mechanical loading	3 days	2 days	1 days
Final cure	14 days	7 days	5 days
**Do not use after this period			
Finishing Time	Approx. 45 min to 2 h after combining components depending on temperature, relative humidity and type of finish required.		
Properties at 23 °C (73 °F) and 50 % R.H.			
Compressive Strength ASTM C579-B, MPa (psi)	10 °C* (50 °F)	20 °C* (68 °F)	30 °C* (86 °F)
1 day	7 (1015)	15 (2176)	19 (2757)
7 days	35 (5078)	44 (6384)	47 (6819)
28 days	45 (6529)	55 (7980)	54 (7835)

Bond Strength CAN/CSA A23.2-6B	Greater than concrete
Setting Time ASTM C266	
Initial	4 - 5 h
Final	7 - 8 h
Coefficient of Thermal Expansion ASTM C531	9,9 X 10 ⁻⁶ /°C (5,5 x 10 ⁻⁶ /°F)
VOC Content	0 g/L
Chemical Resistance	Contact Sika Canada

*Product cured and tested at the temperatures indicated.

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

HOW TO USE

Surface

Preparation

Concrete: Blast clean using mechanical methods.

Surface must be sound and clean and free from all traces of loose material, laitance, oil, grease and bond inhibiting materials. Surface must be open-pore and textured (ICR / CSP 4 - 5). Dampen surface to be repaired with clean water. Substrate should be saturated surface dry (SSD) prior to application.

Steel: Sandblast to white metal (SP-10) finish.

Mixing

Pre-mix component A and component B by shaking vigorously in their respective containers for 30 seconds. Pour the binder mixture (A + B) into a clean, dry 20 L (5 US gal.) pail. Slowly add the entire contents of component C while continuing to mix at low speed (300 - 450 rpm) for three (3) minutes, using a drill fitted with an appropriate mixing paddle until blend is uniform in colour and free of lumps.

Note: The consistency of the mix may be adjusted to suit application requirements by slightly reducing the powdered C component. Contact Sika Canada for more information. Do not use additional water, which would disturb the surface finish and cause discolouration. A seamless finish can be achieved if a wet edge is maintained during application.

Application

At the time of application, surface should be saturated surface dry (SSD). Sikagard®-75 EpoCem®^{CA} can be applied to the prepared substrate with a trowel and hawk. A lightly moistened rubber sponge float or mason's brush may be used as required to provide a fine textured finish. A steel trowel may be used to provide a denser, smooth finish. To repair surface irregularities and holes greater than 3 mm (120 mils) in depth, consult Sika Canada.

Alternatively, Sikagard®-75 EpoCem®^{CA} may be spray-applied. For spray application information, contact Sika Canada.

Clean Up

Uncured material may be removed from tools with water. Cured product can only be removed mechanically.

Limitations

- Maximum thickness of coating: 3 mm/coat (120 mils/layer).
- Minimum substrate temperature: 8 °C (46 °F).
- Maximum substrate temperature: 25 °C (77 °F).
- Do not dilute with water.
- Maximum relative humidity: 75 %.
- Maximum moisture content of concrete: 12 %.
- Protect EpoCem® resin (A+B) from freezing. If frozen, discard.
- Do not use on surfaces exhibiting hydrostatic pressure.
- Maximum overcoating time: 3 days at 20 °C (68 °F).
- Maximum moisture content of EpoCem® layer prior to the application of a polymer based coating: 4 % by weight.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

SIKA CANADA INC.

Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9

Other locations
Toronto
Edmonton
Vancouver

1-800-933-SIKA
www.sika.ca

Certified ISO 9001 (CERT-0102780)
Certified ISO 14001 (CERT-0102791)

