

Product Data Sheet

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Sikagard®-750 Deco EpoCem®

Sikagard®-750 Deco EpoCem®**Decorative Floor and Wall Coating****Product Description**

Sikagard®-750 Deco EpoCem® is a decorative, normally binding, cement bound, epoxy reinforced, three-component Decorative floor and wall coating

Uses

- As a decorative coating on concrete and mortar for vertical or horizontal surfaces, in new construction or renovations.

Characteristics / Advantages

- Simple and user friendly application
- No follow-up treatment required
- Solvent free

Product Data**Form****Appearance / Colours**

Comp. A Resin:	liquid
Comp. B hardener:	liquid
Comp. C filler:	Additive, powder
Colour pigments:	Water soluble colour concentrate can be obtained from paint specialists, e.g. Acomix from Akzo Nobel

Packaging

Comp A:	1.14kg
Comp B:	2.86kg
Comp C:	17kg
Comp A B + C:	21kg ready to use admixture
Palette delivery:	1050kg (50 x 21kg)

Note: Comp. A + B correspond to Sika® Repair/Sikafloor® EpoCem® Module.

Comp. A + B:	4 kg binding agent
	40 kg binding agent
	200 kg binding agent

Storage**Storage Conditions / Shelf Life**

12 months from date of production if stored properly in original, unopened and undamaged sealed containers, in dry conditions at temperatures between +5°C and +30°C. Protect from frost and moisture, especially component C.

Technical Data**Chemical Base**

Epoxide resin, cement

Density

Comp. A:	Approximately 1.05 kg/l (+20 °C)
Comp. B:	Approximately 1.03 kg/l (+20 °C)
Comp. C:	Approximately 1.30 kg/l (+20 °C)
Comp. A + B + C + Pigments:	Approximately 2.00 kg/l (+20 °C)

Layer thickness

Min. 0.5 mm, max. 3.0 mm per work process
Individual locations up to 5 mm (10 x 10 cm)



Thermal expansion coefficient	a » (In the temperature range between: -20 °C and +60 °C)	16.9 x 10 ⁻⁶ per °C	(SN EN 1770)
Carbon dioxide diffusion resistance (μCO ₂)	mCO ₂ : Carbonation resistance R:	Approximately 7'000 Approximately 7 m per 1 mm thickness	(SN EN 1062-6)
Water vapour diffusion resistance (μH ₂ O)	mH ₂ O: Equivalent air layer thickness s _d :	Approximately 300 Approximately 0.25 m per 1 mm thickness	(SN ISO 7783-3)
Water absorption coefficient W	Approximately 0.07 kg m ⁻² h ^{-0.5}		(SN EN 1062-3)
Use temperature	+10 °C to +40 °C	Dry heat with constant load	
Mechanical / Physical Properties			
Pressure resistance	Approximately 46.9 N/mm ² (28 days, +20 °C)		(SIA 162/1)
Bonding tensile strength	Approximately 6.4 N/mm ² (28 days, +20 °C)		(SIA 162/1)
Adhesive tensile strength	Approximately 4.4 N/mm ² (28 days, +20 °C) (50 % concrete breakage)		(SN EN 1542)
Frost/frost thawing salt resistance	High	(Method BEll in accordance with D-R)	
E-module	Static:	Approximately 17.2 kN/mm ² (+20 °C) (SIA 162/1)	
System Information			
System Structure	Primer Sikafloor®-155 WN, Sikafloor®-156 or Sikafloor®-161 Consumption: 0.3 - 0.5 kg/m ² per work process <i>Sand spread on the primer</i> Loosely spread with Sikadur®-501 (quartz sand 0.3 - 0.9 mm) Consumption: Approximately 0.8 kg/m ² per work process Coating 2 - 3 x Sikagard®-750 Deco EpoCem® Consumption: Approximately 2.0 - 2.5 kg/m ² per work process Sealant <i>Indoors</i> 1 - 2 x Sikafloor®-302 W Consumption: Approximately 150 g/m ² per work process <i>Outdoors</i> 1 - 2 x Sikafloor®-410 Consumption: Approximately 150 g/m ² per work process Please take the product data sheets of the respective product into account		
Application Details			
Consumption / Dosage	Approximately 2.0 kg/m ² /mm These are theoretical values which do not contain added amounts for loss due to application and subsurface consistency. It is generally recommended to determine material consumption using a sample area.		
Substrate Quality	Surfaces must be sound, open textured, clean and free from frost, cement laitance, surface water, oil, grease, coatings, all loose or friable particles and any other surface contaminants. Pressure resistance min. 25 N/mm ² , adhesive tensile strength min. 1.5 N/mm ² . A sample surface should be done in case of doubt.		

Substrate Preparation	<p>The subsurface must be mechanically prepared by sandblasting or polishing. Cement skin must be completely removed to obtain a textured, open surface.</p> <p>Insufficiently weight bearing layers and dirt must be removed. Pores and other surface defects must be bared.</p> <p>Subsurface repairs such as filling pores or reprofiling can be performed with corresponding Sikafloor®, Sikadur® and Sikagard® products.</p> <p>The subsurface must be smooth and level. Uneven areas influence layer thickness. Raised areas must be removed by grinding down.</p> <p>Dust, loose and poorly adhering particles must be completely removed, preferably with an industrial vacuum cleaner.</p>		
Application Conditions / Limitations			
Subsurface Temperature	Min. +8 °C, max. +30 °C		
Air Temperature	Min. +8 °C, max. +30 °C		
Subsurface moisture	$\leq 4\%$ moisture content Test Method Sika®-Tramex or CM. No rising moisture in accordance with ASTM (PE foil).		
Relative Air Humidity	Min. 20 % r.F., max. 80 % r.F.		
Application Instructions			
Mixing	<p>Comp. A : B : C = 1 : 2.5 : 14.9 (weight shares)</p> <p>Pigment dosing Comp. (A + B + C) : Pigments = 21 kg : 0.15 - 0.2 kg</p> <p>The amount of Comp. C can be reduced to min. 15.9 kg with 4 kg (Comp. A + B).</p>		
Mixing Time	<p>In pre-dosed single use containers, shake Comp. A and empty into Comp. B. Shake the mixture thoroughly for approx. 30 seconds. Pour binding agents A + B and the pigments into mixing containers and add Comp. C.</p> <p>When using large containers, note the scaling / measure the components. First stir the liquid components A + B + colour pigments and mix for 30 seconds before adding the powder (Comp. C).</p> <p>Intensively mix for three minutes with a slow electric stirrer.</p>		
Mixing Tools	Slow electric stirrers (300 - 400 RPM), one and two armed basket stirrers, forced and static mixers are recommended for mixing.		
Application Method / Tools	<p>Apply Sikagard®-750 Deco EpoCem® to the sanded primer and form the desired structure in several work steps.</p> <p>Processing manually with a scoop and trowel.</p> <p>The freshly applied surfacer must be protected against wetness and direct sun exposure for at least 24 hours.</p> <p>The individual work steps must be processed with a spherical dish polishing machine with a polishing net..</p>		
Cleaning of tools	Clean all tools and application equipment with water immediately after use. Hardened/cured material can only be removed mechanically.		
Working life	21kg ready to use mixture		
	Temperature	Time	
	+10°C	Approx 80 minutes	
	+20°C	Approx 40 minutes	
	+30°C	Approx 20 minutes	

Waiting time between work processes

Sikagard®-750 Deco EpoCem® on Sikagard®-750 Deco EpoCem®

Substrate temperature	Waiting
+10°C	Approx 60 hours
+20°C	Approx 15 hours
+30°C	Approx 8 hours

Important: The stated waiting times apply to relative air humidity of 75% and change with differing weather conditions (temperature, relative air humidity).

Other information

In closed rooms, ensure good ventilation to remove excess moisture.

Freshly applied Sikagard®-750 Deco EpoCem® must be protected against moisture, condensation and water for at least 24 hours.

Improper treatment of cracks may impair the service life and lead to new crack formation.

It is not possible to obtain the same processing characteristics without pigment paste.

We recommend doing sample surfaces onsite.

Important information

This product is only intended for customers whose employees possess the required knowledge in working with synthetic resin floor coatings and compliance with the corresponding application limits. Construction rules must generally be taken into account.

Hardening conditions**Waiting time before use**

	+10°C	+20°C	+30°C
Processing time	Approx 30 mins	Approx 15 mins	Approx 10 mins
Accessible after	Approx 48 hrs	Approx 24 hs	Approx 12 hs
Full loadable after	14 days	7 days	5 days

Important: These guiding values are influenced by varying subsurface and weather conditions.

Value Base

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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related 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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