BUILDING TRUST

PRODUCT DATA SHEET

Sikagard®-750 Deco EpoCem®

Epoxy modified, cementitious finishing mortar

CE

DESCRIPTION

Sikagard®-750 Deco EpoCem® is a decorativ, normal setting, epoxy modified 3-component cementitious finishing mortar for textured floor- and wall coatings.

USES

- As decorative finishing mortar
- Suitable for vertical and horizontal surfaces
- Application on new construction and refurbishment
- Use on top of concrete or mortar

CHARACTERISTICS / ADVANTAGES

- Cementitious and epoxy modified
- Solvent free
- Easy application
- Unique finishing

APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN 13813: Epoxy modified cementitious coating for use in buildings
- Prüfinstitut Hoch, Fladungen (DE): Fire classification $A2_{fl}$-s1 in accordance with EN 13501-1 - Test report No. KB-Hoch-160274-3 of 06.04.2021 (only for assembly according to test certificate)

PRODUCT INFORMATION

Composition	Epoxy modified cementitious mortar	
Packaging	Part A:	1.14 kg
	Part B:	2.86 kg
	Part C:	17.00 kg
	Part A + B + C:	21.00 kg
	Pallet:	50 x 21 kg (1 050 kg)
	Parts A + B correlate to Sika® Repair/Sikafloor® EpoCem® Modul.	
Shelf life	12 months from date of production	
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C.	
	Part A + B:	Protect from frost.
	Part C:	Protect from humidity.
Appearance and colour	Part A Resin:	Liquid
	Part B Hardener:	Liquid
	Part C Filler:	Aggregate, powder

Pigments

- Possibility to use water soluble colour concentrate e.g. Acomix from Akzo Nobel.
- SikaDecor® Color Pigment.
- Pre-tinted color system available at Bosshard + Co. AG, Ifangstrasse 97, 8153 Rümlang, Switzerland.

Density	Part A:	~ 1.05 kg/l	(+20 °C)
	Part B:	~ 1.03 kg/l	(+20 °C)
	Part C:	~ 1.30 kg/l	(+20 °C)
	Part A + B + C:	~ 2.00 kg/l	(+20 °C)
Water absorption	~ 0.07 kg/(m² * h$^{0.5}$)		(EN 1062-3)

TECHNICAL INFORMATION

Tensile adhesion strength	> 2.5 N/mm²	(28 days, +20 °C) (Failure in concrete)	(EN 1542)
Coefficient of thermal expansion	α: (At temperatures between -20 °C and +60 °C.)	~ 17 * 10^{-6}/K	(EN 1770)
Service temperature	Dry and constant:	Min. +10 °C, max. +40 °C	
Diffusion resistance to water vapour	μH$_2$O:	~ 300	(ISO 7783-2)
Equivalent air layer thickness for water vapour	s$_d$:	~ 0.25 m	(ISO 7783-2)
Diffusion resistance to carbon dioxide	μCO$_2$:	~ 7 000	(EN 1062-6)
Freeze thaw de-icing salt resistance	High		(Method BEII according D-R)
Carbonation resistance	R:	~ 7 m/mm	(EN 1062-2)

SYSTEM INFORMATION

System structure

Sika® DecoWall EpoCem® (wall coating)

Coating System	Product	Consumption
Primer:	Sikafloor®-701	~ 0.40 kg/m²
Mesh embedding:	Sikafloor®-701 with glass fabric type 270	~ 0.80 kg/m²
Bonding coat:	Sikafloor®-701, sprinkling with Sika® quartz sand 0.1-0.6 mm	~ 0.40 kg/m²
1st layer:	Sikagard®-750 Deco Epo-Cem®	1.30 - 1.80 kg/m²
Interlayer primer:	Sika® Repair/Sikafloor® EpoCem® Modul Apply the next layer when dry but still tackly	~ 0.07 kg/m²
2nd layer:	Sikagard®-750 Deco Epo-Cem®	0.50 - 1.20 kg/m²
Top sealer :	Sikafloor®-302 W+	1 - 2 * ~ 0.15 kg/m²

The amount of Sikagard®-750 Deco EpoCem® part C for the 1st and 2nd layer can be reduced or increased by a maximum of 1 kg.

Sikafloor® EpoCem® HS-75 Deco (floor build-up)

Coating System	Product	Consumption
Primer:	Sikafloor®-701, Sikafloor®-155 W N or Sika® Repair/Sikafloor® Epo-Cem® Modul[1.]	0.30 - 0.50 kg/m²
Broadcasting:	Sika® quartz sand 0.3-0.9 mm	3.00 - 4.00 kg/m²
1st layer:	Sikagard®-750 Deco Epo-Cem®	1.30 - 2.00 kg/m²
Interlayer primer:	Sika® Repair/Sikafloor® EpoCem® Modul Apply the next layer when dry but still tackly	~ 0.07 kg/m²
2nd layer:	Sikagard®-750 Deco Epo-Cem®	0.60 - 2.30 kg/m²
Top sealer (inside):	Sikafloor®-302 W+	1 - 2 * ~ 0.15 kg/m²
Top sealer (outside):	Sikafloor®-410	1 - 2 * ~ 0.10 kg/m²

1. By using Sika® Repair/Sikafloor® EpoCem® Modul there is no broadcasting possible. Consumption see respective product datasheet.

The amount of Sikagard®-750 Deco EpoCem® part C for the 1st and 2nd layer can be reduced or increased by a maximum of 1 kg.

These are theoretical values and they do not include material loss as a result of application and substrate conditions. It is strongly recommended to determine material consumption and surface aspect on a trial area.

APPLICATION INFORMATION

Mixing ratio

Part A : B : C: 1.14 : 2.86 : 15.9 - 17.0 kg
1 : 2.5 : 13.9 - 14.9 parts per weight

By using Acomix colors add max 0.2 kg per 21 kg unit.

By using SikaDecor® Color Pigment add 1 bottle (500 ml) per 21 kg unit.

By using the pre-tinted color system from Bosshard + Co. AG follow the instructions given by the supplier.

The dosage of other pigments may vary. Apply trial area first and check the mechanical properties.

Consumption

~ 2.0 kg/m²/mm

Ambient air temperature

Min. +8 °C, max. +30 °C
The minimum temperature must not be exceeded during curing.

Substrate temperature

Min. +8 °C, max. +30 °C
The minimum temperature must not be exceeded during curing.

Pot Life

Temperature	Time
+10 °C	~ 40 minutes
+20 °C	~ 20 minutes
+30 °C	~ 10 minutes

Waiting time to overcoating	**Sikagard®-750 Deco EpoCem® or Sikafloor®-302 W+ on Sikagard®-750 Deco EpoCem®**

Substrate temperature	Minimum	Maximum
+10 °C	~ 60 hours	7 days
+20 °C	~ 15 hours	4 days
+30 °C	~ 8 hours	2 days

Important: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

Always ensure adequate fresh air ventilation when using Sikagard®-750 Deco EpoCem® in confined spaces to avoid curing problems.

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

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO_2 and water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

The structure and final look of the build-up is given by the applicator. Therefore do we strongly recommend to apply a sample area before the final application.

With light colours, trowel abrasion (metal abrasion) can result in a cloudy surface when filling. It is therefore recommended to use non-metallic tools for light colours.

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

Sika® DecoWall EpoCem®
Please refer to the Methodstatement "Sika® DecoWall Systems".

Sikagard®-750 Deco EpoCem® as floor build-up
The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum. Pull of strength shall not be less than 1.5 N/mm². If in doubt apply a test area first.

Pre-treatment
Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface gripping surface profile suitable for the product thickness.

Weak concrete must 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 appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.

The substrate must be smooth and even. Unevenness influences the layer thickness. High spots must be removed by grinding.

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum extraction equipment.

MIXING

Adding Pigments: Follow the instructions given by the supplier of the pigments.

Shake well part A and add to part B, then shake this mixture for approx. 30 seconds.

Pour the mix into a container and add part C. Mix continuously for min. 3 minutes until a uniform mix has been achieved. A longer mixing gives a smoother product.

To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. Over mixing must be avoided to minimise air entrainment.

Mixing Tools
Sikagard®-750 Deco EpoCem® must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

APPLICATION

Sikagard®-750 Deco EpoCem® is poured on the primed surface and spread evenly by means of a trowel in several layers untill the desired structure has achieved.

Use Sika® Repair/Sikafloor® EpoCem® Modul as interlayer primer and apply the next layer when dry but still tackly.

CLEANING OF EQUIPMENT

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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