

PRODUCT DATA SHEET

SikaCor® VEL

Conductive vinylester laminate system

DESCRIPTION

SikaCor® VEL is a glass fibre reinforced, 2-pack vinylester based coating system and an inert powder:

- SikaCor® VEL primary screeding
- SikaCor® VEL laminate
- SikaCor® VEL top coat

USES

SikaCor® VEL may only be used by experienced professionals.

SikaCor® VEL is suited for sealing reinforced concrete receiving vats and chambers, indoors or outdoors, or for steel tanks for the storage of aggressive liquids (e.g. concentrate acids, leaches and solvents). SikaCor® VEL is also suitable as a coating system to be driven on directly by vehicles with pneumatic tyres or with tyres of solid rubber, Vulkollan or polyamide, e.g. in electroplating works, pickling plants, and in plants where oxidising materials are manufactured, treated or used.

CHARACTERISTICS / ADVANTAGES

- Wide ranging chemical resistance to acids, leaches, solvents and notably to oxidising and flammable substances
- Crack bridging
- Conductive
- Driveable
- Very fast hardening

APPROVALS / STANDARDS

- Satisfies the requirements of the 'principles of Construction and Inspection for the Protection of Waters' (Bau- und Prüfgrundsätze für den Gewässerschutz) of the DIBt (Deutsches Institut für Bautechnik German Institute of Building Technology) and is building inspectorate approved for concrete
- Coating based on vinylester for concrete protection according to EN 1504, DoP, with CE-mark.

PRODUCT INFORMATION

Chemical Base	SikaCor® VE (solution)	Vinylester resin
	SikaCor® VE (hardener)	Org. peroxide
	SikaCor® VEL (powder)	Carbon powder
Packaging	SikaCor® VE (solution)	25 kg net.
	SikaCor® VE (hardener)	1 kg net.
	SikaCor® VEL (powder)	25 kg net.
	Glass fibre matting (450 g/m ²)	roll ~70 kg
	SikaCor® surface matting (~30 g/m²)	roll ~9 kg

Product Data Sheet

SikaCor® VEL September 2020, Version 03.02 020602000310000011

Appearance / Colour	SikaCor® VE (solution conductive), darkgrey	~RAL 7031
	SikaCor® VE (solution), pebble grey	~RAL 7032
	Laminate: SikaCor® VE (solution) yel-	Yellowish transparent
	low glaze +	·
	SikaCor® VE (hardener)	
Shelf Life	SikaCor® VE (solution)	3 months
	SikaCor® VE (hardener)	6 months
	SikaCor® VEL(powder)	24 months
Storage Conditions	In originally sealed containers in a cool and dry environment (at max. \pm 20°C).	
Density	SikaCor® VE (solution)	
	yellowish transparent	~1.1 g/cm ³
	SikaCor® VE (hardener)	~1.1 g/cm ³
	SikaCor® VEL (powder)	~0.54 g/cm³ (bulk density)
	SikaCor® VE	
	(solution conductive)	~1.26 g/cm ³
	SikaCor® VE (solution)	
	RAL 7032	~1.34 g/cm³
TECHNICAL INFORMATI	ON	
Elongation at Break	Approx. 73 N/mm² (horizontally in the layer) (According to ISO 527)	
Crack Bridging Ability	Up to max. 0.2 mm	
Chemical Resistance	According to the approval of the DIBt (German Institute of Building Technology), approval number Z-59.12-69 for test groups 1, 1a, 2, 3, 3a, 3b, 4, 4a, 4b, 4c, 5, 5a, 5b, 6, 6b, 7, 7a, 7b, 8, 9, 9a, 10, 11, 12, 13, 14, 15 and 15a	
	Additional building inspectorate approval for the following materials: - hydrochloric acid ≤ 37 % - sulfuric acid ≤ 70 % - nitric acid ≤ 65 % - aqueos sodium hypochlorite (12 % active chlorine) - hydrogen peroxid ≤ 30 % - chromic acid ≤ 50 %	
	Note: In particular cases a discoloration of one of the Nevertheless this does not effect the	

Dry heat up to approx. + 100°C

≤ 1 x 10⁸

Damp heat depending on chemical exposure upon request



Thermal Resistance

Electrical Resistance

APPLICATION INFORMATION

Primary screeding: 1.000 kg SikaCor® VE yellowish transparent 0.015 kg SikaCor® VE (hardener) 0.800 kg SikaCor® VEL (powder) 1.815 kg = 11 final mixture consumption: approx. 0.7 - 1.5 kg/m² Laminate: 1.074 kg SikaCor® VE yellowish transparent 0.016 kg SikaCor® VE yellowish transparent 0.016 kg SikaCor® VE yellowish transparent 1.090 kg = 11 final mixture consumption: approx. 2.5 kg/m² Top coat conductive (per layer): 1.200 kg SikaCor® VE (solution) 0.012 kg SikaCor® VE (hardener) 1.212 kg = 11 final mixture consumption: approx. 0.3 kg/m² Alternative (without DIBt approval): Top coat non-conductive RAL 7032 (per layer): 1.300 kg SikaCor® VE (solution) RAL 7032 (100 parts) 0.013 kg SikaCor® VE (hardener) 1.313 kg = 11 final mixture consumption: approx. 0.3 kg/m² Layer Thickness ¬3 mm Ambient Air Temperature Min. + 5°C, max. + 30°C Relative Air Humidity Max. 80 % (temperature ≥ 3 K above the dew point) Provide good and sufficient ventilation during application! Water, even in minimal quantities, may damage the accelerating and avoid the hardening process of the mortar. Please keep tools and mixers absolutely dry. Surface temperature Min. + 5°C, max. + 30°C Pot Life ¬30 min			
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	र system		
Pot Life ~30 min			
Drying Time Primary screeding:			
Walkable after 2 h at + 20°C			
Overcoatable after 16 h at + 20°C			
Laurianta			
Laminate:			
Walkable and overcoatable after 2 h at + 20°C			
Walkable and overcoatable after 12 h at + 10°C			
Top Coats:			
Walkable and overcoatable after 2 h at + 20°C			
transacte and overcoulable after 2 if at 1 20 C			
Walkable and overcoatable after 12 h at + 10°C			



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APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Concrete:

Cleaning of the surface by shot-blasting, pressure blasting or milling (after milling shot-blasting is necessary). The surface must be dry, firm, fine gripping, free from loose and friable particles, mortar laitance, dust and other contaminations. Residual moisture content not above 4 % acc. to CM. The average value of surface tensile strength should not be below 1.5 N/mm². When working on very dirty or highly chemically contaminated surfaces, additional adequate cleaning methods are necessary. Structures that are subject to the provisions of water resources law (Wasserhaushaltsgesetz - WHG) may only be coated by qualified coating firms possessing certificates of capability.

SURFACE PREPARATION

Steel:

Blast cleaning to Sa 2 ½ according to ISO 12944-4. Free from dirt, oil and grease.

MIXING

Fill SikaCor® VE Lösung (solution) in a container and add SikaCor® VE Härter (hardener) at the specified mixing ratio. Stir thoroughly until a homogeneous compound is obtained. Then fill into a clean container to stir up again. Add powder according application and required mixing ratio. Mixing time should be at least 3 minutes.

APPLICATION

Troweling, laminating, rolling = undiluted

Primary screeding:

SikaCor® VEL primary screeding should be applied with smoothing trowel.

Laminate:

SikaCor® VEL binding material is first rolled onto the hardened SikaCor® VEL Primery screeding with a pile-fabric roller. Glass fibre matting (Vetrotex M 113 or Advantex M 113) with a mass per unit area of 450 g/m ² is then immediately laid on, pressed in with the roller and simultaneously saturated with SikaCor® VEL binding material.

A 2_{nd} layer of the same glass fibre matting is laid on top of the 1_{st} layer, thoroughly soaked, matting layer, pressed down in the same way with the roller, and saturated with SikaCor® VEL binding material.

Finally the 2_{nd} layer of glass fibre matting is covered by a layer of surface matting (approx. 30 g/m^2) pressed in with a laminating roller and rolled out ensuring that any air that has become included is completely expelled.

Top coat:

In order to discharge static electricity, conductive tapes / braids are glued on to the SikaCor® laminating layer, joined to the equipotential connection, and covered with the top coat SikaCor® VE Lösung leitfähig (solution conductive). Repeat application after 3 - 5 hours after curing of the first top coat.

Alternatively to the conductive top coat you can apply SikaCor® VE Lösung RAL 7032 (solution RAL 7032) as non-conductive top coat.

Non slip characters:

To improve the non-slip characteristic the 2_{nd} coating may be broadcasted with carbon silicide (0.5 mm). Needed quantity is about 0.5 kg/m².

CLEANING OF TOOLS

Acetone

BASIS OF PRODUCT DATA

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.

ECOLOGY HEALTH AND SAFETY

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

GISCODE: SB-STY 20

This coding enables additional information and helps with the creation of operation instructions (WINGIS online) to be obtained on the BG Bau service pages (www.gisbau.de).



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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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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