

PRODUCT DATA SHEET

SikaCor® VEQ

VINYLESTER RESIN MORTAR

DESCRIPTION

SikaCor® VEQ is a cold curing 2-pack synthetic resin mortar made of SikaCor® VE Lösung (solution), SikaCor® VE Härter (hardener) and SikaCor® VEQ Mehl (powder inert quartz filler).

USES

SikaCor® VEQ may only be used by experienced professionals.

SikaCor® VEQ is suitable for laying and jointing of bricks, tiles and special fabricated pieces made of ceramic or carbon for the production of chemical, thermal and mechanic resistant coatings and protective linings.

Due to its extraordinary resistance against oxidising agents, SikaCor® VEQ is used in the plants for stainless steel pickling, galvanising and in bleaching processes.

CHARACTERISTICS / ADVANTAGES

- Wide ranging chemical resistance to acids, leaches, solvents and notably to oxidising substances (e.g. chlorine bleach)
- Extremely suitable for bleaching processes as the light colour of the mortar does not affect the bleached material
- Very fast curing

PRODUCT INFORMATION

Composition	SikaCor® VE Lösung (solution)	Vinylester resin
	SikaCor® VE Härter (hardener)	Org. peroxide
	SikaCor® VEQ Mehl (powder)	Quartz
Packaging	SikaCor® VE Lösung (solution)	25 kg net.
	SikaCor® VE Härter (hardener)	1 kg net.
	SikaCor® VEQ Mehl (powder)	25 kg net.
Appearance / Colour	Light grey	
Shelf life	SikaCor® VE Lösung (solution)	3 months
	SikaCor® VE Härter (hardener)	6 months
	SikaCor® VEQ Mehl (powder)	24 months
Storage conditions	In originally sealed containers in a cool and dry environment (at max. + 20°C).	

Density	SikaCor® VE Lösung (solution)	~1.1 g/cm ³
	SikaCor® VE Härter (hardener)	~1.1 g/cm ³
	SikaCor® VEQ Mehl (powder)	~1.3 g/cm ³ (bulk density)

TECHNICAL INFORMATION

Temperature Resistance	Dry heat up to approx. + 120°C Damp heat depending on chemical exposure upon request
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SYSTEMS

Systems	Hardened SikaCor® VEQ Mortar	
	Density	~1.8 g/cm ³
	Shore hardness D	> 70
	Compressive strength EN ISO 604	~104 N/mm ²
	Flexural strength EN ISO 178	~39 N/mm ²
	Tensile strength EN ISO 527	~11 N/mm ²
	Elastic modulus (compression)	~1.5 x 10 ⁴ N/mm ²
	Heat conductivity	~1.0 W/(m x K)
Linear expansion coefficient	~40 x 10 ⁻⁶ K ⁻¹	

APPLICATION INFORMATION

Consumption	Coating System and consumption	
	Priming coat:	
	1.000 kg SikaCor® VE Lösung (solution)	(100 parts)
	0.015 kg SikaCor® VE Härter (hardener)	(1.5 parts)
	1.015 kg = 1 l final mixture	
	consumption: approx. 0,3 kg/m ²	
	Embedding and jointing mortar:	
	0.345 kg SikaCor® VE Lösung (solution)	(100 parts)
	0.005 kg SikaCor® VE Härter (hardener)	(1.5 parts)
	1.450 kg SikaCor® VEQ Mehl (powder)	(425 parts)
	1.800 kg = 1 l final mixture	
Ambient Air Temperature	Min. + 10°C	
Relative Air Humidity	Max. 80 % (temperature ≥ 3°C above the dew point) Provide good and sufficient ventilation during application! Water, even in minimal quantities, may damage the accelerating system and avoid the hardening process of the mortar. Please keep tools and mixers absolutely dry.	
Surface Temperature	Min. + 10°C	
Pot Life	Priming coat	~30 - 45 min at +20°C
	Embedding and jointing mortar	~50 min at +20°C
Drying time	Walkable	After ~24 h (at + 20°C surface temperatur)
	Hard-dry	Full mechanically and chemically after 2 days (at + 20°C surface temperatur)

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.

If panels have to be laid in alkaline mortar or silicate mortar with open joints, make sure that the mortar is hardened and dried before applying SikaCor® VEQ. To acidify the joints is not necessary. The edges of the panels have to be free from mortar and the joints must be cleaned.

SikaCor® VEQ can be applied directly on sealed layers, such as polyisobutylene foils. In this case, surfaces have to be impregnated (see primers). The priming coat has to be blinded as long it is fresh. After hardening of the priming coat you can use SikaCor® VEQ-Mortar.

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

<u>Priming coat</u>	<u>By brush or roller</u>
<u>Bedding and jointing mortar</u>	<u>By levelling trowel</u>

CLEANING OF EQUIPMENT

Ethylacetate

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.

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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