

Product 01070300 2-C-EP-primer and binder for mortars, solvent-free, transparent

1 General Data

Fields of application

VIASOL EP-T703 is used as primer on cementitious based surfaces and can also be used on subsoils with higher residual moisture content (up to 6 CM %) or on subsoils with the risk of rising moisture. Here we recommend a film forming 2 layer application.

VIASOL EP-T703 can also be used as binder for mortar screeds in combination with VIASOL quartz mixtures.

These screeds are applied for industrial floors subject to the highest mechanical stress e.g. for military buildings, breweries, or production sites with heavy-duty traffic.

Product description

VIASOL EP-T703 is a solvent-free, colourless two-component epoxy resin binder or primer. VIASOL EP-T703 exhibits excellent mechanical properties and is also used for repair work.

In general, epoxy resins are not colour stable if exposed to UV light or under influence of weathering. We recommend to apply a colour stable sealer.

VIASOL Systems

VIASOL EP-T703 serves as a binding agent for the VIASOL system: **VIASOL COMPACT**

As primer VIASOL EP-T703 can be used for all subsoil with increased humidity up to 6 CM% for all VIASOL EP- and PUR-Systems. Special test reports are available for the system: **VIASOLDECK 11b plus**
VIASOLDECK OS8

Care and maintenance

For a long-term preservation of the properties of resin floors, we recommend a regular cleaning and care programme. For further details see our VIASOL Care and Maintenance Guide. Before first use we recommend to perform a basic cleaning and initial care.

Technical support

For system build up possibilities and detailed information relating to the laying of VIASOL products, please refer to the VIASOL System Planner or contact VIACOR Polymer GmbH directly.

Phone: +49 (0)7472-949990

E-Mail: info@viacor.de

(A) Technical Data	
Liquid mixture (A+B)	
1. Solids content	99 %
2. Density: binding agent (20°C)	1.1 g/cm ³
3. Viscosity (20°C)	500 - 700 mPas
4. Packaging size (2-component container)	25 kg (17.1 kg A + 7.9 kg B)
drums	A: 2x205 kg / B: 190 kg
5. Colour	transparent
6. Shelf life	24 months in closed original container
7. Storage	Dry at 10–25°C, avoid direkt sunlight

(B) Technical Data	
Cured material	
1. Flexural strength: mortar (DIN EN 196 / ASTM C 109)	23.4 N/mm ²
2. Compressive strength: mortar (DIN EN 196 / ASTM C 109)	89 N/mm ²
3. Tensile adhesion strength (DIN EN ISO 4624)	> 2.5 N/mm ² (concrete failure) min. C30/37
4. Abrasion resistance mortar (DIN EN ISO 5470-1) (Boehme)	6.1 cm ³ / 50 cm ²



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2 Application method

Substrate preparation

Use as a primer:

The substrate must be prepared by vacuum shot blasting. Rough contaminations can be removed by grinding.

VIASOL EP-T703 can be applied to the surface directly if the substrate moisture content does not exceed max. 6.0 CM %, if the surface is absorbent and free of puddles. There should be no water in the pores. The substrate must be clean and free of dust and loose particles. All traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed. The surface should have an adhesive pull strength of minimum 1.5 N/mm². Cracks and hollows must be properly remedied.

Use as a binding agent for mortar:

The substrate must be clean and free of dust and loose particles. Mortars with VIASOL EP-T703 as a binding agent are applied directly onto the primer. If the floor shows unevennesses or holes, these should be remedied with VIASOL EP-T703 (filled with VIASOL QS). The mortar must be applied within 24 hours after the primer has been laid.

Application

The product is delivered in 2 component containers in the exact mixing ratio. The entire contents of the B-component are emptied into the A-component container. Both components are stirred until homogeneous for about 2–3 minutes using a suitable electrical stirrer. The inclusion of air in the stirring process must be avoided.

Primer: After emptying the mixed product into a new container, the product is applied using a spatula or rubber squeegee. It should be particularly ensured that a film-forming, closed surface is produced. A second layer is recommended, especially if substrate moisture is higher than 4 to 6 CM % or rising moisture is expected. The second layer can be rolled with a short pile roller. To improve inter-layer adhesion the wet primer can be sprinkled slightly with silica sand VIASOL QS0.3-0.8 over the entire area (consumption approx. 800 g/m²).

If used as primer for mortar screeds, the primer should be sprinkled with silica sand (approx. 1000 g/m²).

Synthetic resin mortar: The fillers (VIASOL quartz sand mixture) are premixed dry in a forced action pan mixer. Then the mixed binding agent (see above) is added and mixed with the filler for minimum 3 minutes.

(C) Technical Data

Liquid mixture (A+B)

1.	Mixing ratio A : B	100 : 46 by weight
2.	Working time (20°C)	15 –20 minutes
3.	Application temperature:	10–30°C (min. 3°C above dew point)
1.	Material consumption Primer:	min. 300 – 500 g/m ² per layer
	Blocking primer:	min 500 – 600 g/m ² without sand scattering + 300 – 400 g/m ² sand scattering if needed
	Mortar per mm layer thickness	min. 2000 g/m ²
4.	Foot traffic (20°C)	after approx. 24 hours
5.	Following coating (20°C)	within 12–24 hours
6.	Fully capable of withstanding mechanical stress (20°C) chemical stress (20°C)	after 7 days after 28 days

The mixing ratio of resin / filler can be varied between 1:9 and 1:7. The synthetic resin mortar is applied onto the primer in the usual manner in a minimum layer thickness of 4-8 mm. It is spread and smoothed by hand or 'helicopter'. After the mortar has cured it must be scratch-coated 2-3 times with VIASOL EP-T703 or VIASOL EP-T712 using a spatula.

For cleaning of tools and other contaminations VIASOL SO-X10 tool cleaner is used.

Overcoating

If overcoating within 24 hours after application the mortar coating need not be grinded. Overcoating later than that is only possible after grinding it carefully.

Manufacturer:

VIACOR Polymer GmbH, Graf-Bentzel-Str.78, D-72108 Rottenburg, Tel: +49/7472-94999-0, info@viacor.de, www.viacor.de

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3 Further information

CE-Mark



CE-Mark according to EN 13813

EN 13813: 2003-01, Screed material and floor screeds - Screed materials - Properties and requirements is the basis for requirements for floor screeds used in indoor flooring constructions. Resin coatings and sealer are also subject to this norm.

Details see CE-conformity mark and conformity declaration.

Decopaint-Guidelines (EU 2004/42/EG)

The maximum allowable VOC content for Product category IIA j Type Lb in the ready-to-use state is stage II (from 2010) < 500 g/l VOC.

In the ready-to-use state this product contains less than 500 g/l VOC.

Warnings and precautions

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of epoxy resin based coating materials must be observed.

Suitable protective clothing including suitable eye protection must be worn.

Disclaimer

All information in this technical data sheet is based on our current knowledge and experience. This does not release the applicator from performing their own tests as many application factors, beyond our control, affect the application of our product. No guarantee of characteristics or suitability for a special purpose can be derived from this information. All present data, descriptions, drawings, photos, ratios, weights etc. are subject to change without prior notice and do not represent contracted characteristics of the product.

Due to different materials, sub-bases and working conditions, no guarantee of an application result or any liability claims can be derived from these details or from an unwritten technical advice except for liability claims based on:

- damage to life, body or health resulting from a negligent violation of obligations or a deliberate or negligent violation of obligation of a legal representative or assistant and
- if we are charged with intention or gross negligence.

The user has to test the products for their intended use. The user is responsible for following existing laws and orders and for observing third party trade mark rights.

As all VIACOR data sheets are updated on a regular basis it is the users responsibility to obtain the most recent issue (see www.viacor.de or contact us directly).