

**Product 01050300**      2-C-EP top coating, self-levelling, solvent-free, coloured

## 1 General Data

### Fields of application

VIASOL EP-C503 is used as a top coating for industrial floors with high demands in mechanical and hygienic terms.

Areas of application are found in all branches e.g. high-shelf warehouses, stores, power stations, laboratories, production sites etc.

In addition VIASOL EP-C503 is used as binding agent for anti-skid coatings according to DIN 51130 (silica spread).

### Product description

VIASOL EP-C503 is a pigmented, ready-to-use, solvent-free 2-component coating compound of high-grade epoxy resin. VIASOL EP-C503 produces tough, joint-free, non-porous floor coatings which resists heavy foot and transport traffic. VIASOL EP-C503 is easy to clean and exhibits a good level of resistance to fuels and lubricants, most solvents and many chemicals.

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.

### 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.

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#### (A) Technical Data

##### *Liquid mixture (A+B)*

1. Solids content	98 %
2. Density (20°C)	1.60 g/cm <sup>3</sup>
3. Viscosity (20°C)	2000–3000 mPas
4. Packaging size (2-component container)	25 kg (21 kg A + 4 kg B)
5. Colours	VIASOL standard, other colours upon request
6. Shelf life (20°C)	24 months in originally closed container
7. storage	dry at 10–25°C, avoid direct sunlight

#### (B) Technical Data

##### *Cured material*

1. Flexural strength (DIN EN 196 / ASTM C 109)	40 N/mm <sup>2</sup>
2. Compressive strength (DIN EN 196 / ASTM C 109)	70 N/mm <sup>2</sup>
3. Adhesive strength (DIN EN ISO 4624)	> 2.5 N/mm <sup>2</sup> (concrete failure)
4. Abrasion resistance (DIN EN ISO 5470-1)	80 mg/1000 cycles
5. Shore-D-hardness (DIN EN ISO 868)	82

### Manufacturer:

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

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## 2 Application method

### Substrate preparation

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.

Depending to the intended evenness VIASOL EP-C503 is applied directly onto the primer or an EP-levelling layer (e. g. VIASOL EP-L300). The top coat VIASOL EP-C503 must be applied no later than 24 hours after the previous layer has been laid.

### Application

The product is delivered in ready-to-use 2-component containers in the exact mixing ratio. The A-component must be stirred for at least 2–3 minutes. Then the entire content of the B-component is emptied into the A-component container and the two components are mixed until homogeneous using a suitable electric stirrer (for at least 2–3 minutes). The inclusion of air in the mixing process is to be avoided. The mixture is poured into another container and briefly stirred again. We recommend the application by equal batch numbers.

VIASOL EP-C503 can be filled with 3-5 kg quartz sand (VIASOL QS F32) per 25 kg container, the material properties should be tested depending on applied thickness and ambient conditions (temperature).

VIASOL EP-C503 is poured onto the surface and spread over the entire area using a serrated spatula (tooth size no. 25) (layer thickness control). To achieve uniform layer thicknesses, the tooth rows of the spatula must be regularly replaced. The fluid coating can be rolled with a spiked roller, as required. The operative wears spiked shoes to walk on the still wet coating.

When doing an anti-skid, silica spread system or when spreading with decorative flakes the silica or the flakes have to be spread within the processing time.

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

### Overcoating

It is not necessary to abrade the surface if the following coat is applied within 24 h. After 24 h, the application can only take place after a careful grinding of the surface.

<b>(C) Technical Data</b>		
<b>Liquid mixture (A+B)</b>		
1.	Mixing ratio A : B	100 : 19 by weight
2.	Working time (20°C)	20–25 min.
3.	Application temperature	10–30°C (min. 3 K above dew-point)
4.	Material consumption	1500 - 2000 g/m <sup>2</sup>
5.	Foot traffic (20°C)	after approx. 24 hours
6.	following coating (20°C)	within 12–24 hours
7.	Fully capable of withstanding stress mechanical (20°C) chemical (20°C)	after 7 days after 28 days

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### 3 Further information

#### CE-Mark



##### CE Mark according to EN 13813

EN 13813 "Screed material and floor screeds – properties and requirements" specifies requirements for screed material for use in floor construction internally. Resin flooring and sealer coats are also covered by this standard.

For details see CE mark and Declaration of Conformity.

#### Decopaint-Guidelines (EU 2004/42/EG)

The maximum allowable VOC content for Product Category IIA j Type Lb products (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](http://www.viacor.de) or contact us directly).

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