

VIASOL EP-C546 AS Technical Data Sheet

Product 01054610 2-C-EP top coating, conductive, high chemical resistance, solvent free

1 General data

Fields of application

VIASOL EP-C546 AS is used as a conductive coating for floors and bunds in areas where potential water pollutants are used or stored.

The product can also be used in other applications where a crack bridging coating is required.

Product description

VIASOL EP-C546 AS is a pigmented, ready to use self-levelling, two-component conductive coating based on high quality, elasticised epoxy resins. VIASOL EP C546 AS together with the primer VIASOL EP P236 and the conductive primer VIASOL EP-E436 forms the coating system VIASOL **WHG conductive N** which meet the requirements of the German "Wasserhaushaltsgesetz" (WHG = *Water Protection Law.*) The coating is tough hard, easy to clean and has a good resistance to fuels, lubricants and to many solvents as well as a wide range of other 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.

Properties

- high chemical resistant
- statically crack bridging
- conductive accord. to EN 1081 und EN 61 340-4-1
- liquid thight
- solvent free
- suitable for fork lift traffic

VIASOL systems

VIASOL EP-C546 AS is the body coat in the system VIASOL **WHG conductive N** with the Building Inspection Approval Z-59.12-395. VIASOL **UNIVERSAL HBV voltex** VIASOL **UNIVERSAL HBV voltex SR**

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 with 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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Manufacturer:

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(A) Technical data

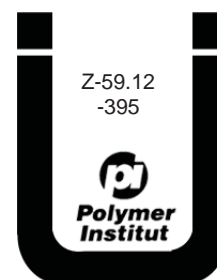
Mixture (A+B)

1. Solids content	98 %
2. Density (20 °C)	1.6 g/cm ³
3. Viscosity (20 °C)	2800 – 3800 mPas
4. Pack size (2-Component pack)	25 kg (21.25 kg A + 3.75 kg B)
5. Colours	approx. RAL 7030, 7032, 7035, 7037, 7040, other colours available on request
6. Shelf-life (20 °C)	12 months
7. Storage	Dry and frost free at 10 – 25°C, avoid exposure to direct sunlight

(B) Technical data

Cured Material

1. Crack bridging (DIBT)	0,2 mm
2. Temperature resistance	Cleaning with water up to +80 °C Short term exposure: up to +100 °C
3. Pull off strength (DIN EN ISO 4624)	> 2.5 N/mm ²
4. Abrasion resistance (DIN EN ISO 5470-1)	75 mg/1000 cycles
5. Shore-D-Hardness (after 14 d) (DIN EN ISO 868)	60
6. Resistance to earth (DIN EN 1081 DIN EN 61340-4-1)	< 10 ⁶ Ohm



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2 Application method

Substrate preparation

The substrate must be clean and dry and free from any substances which might impair adhesion.

VIASOL EP-C546 AS is applied to the conductive primer VIASOL EP-E436. The application must take place within 12 – 14 h (at 20 °C) of the application of the VIASOL EP-E436.

Application

The Part A should be stirred for min. 1 – 2 minutes after which the entire contents of the Part B are added before mixing for min. 2 – 3 minutes with a suitable electrically driven stirrer. The stirrer should be kept submerged in the liquid to avoid the mixing in of air. The mixture should then be emptied into a clean container and mixed for a further minute. We recommend the application by equal batch numbers.

VIASOL EP-C536 should be poured out onto the surface to be coated and spread with a Polyplan No. 48 notched trowel (check application thickness). The still liquid coating should then be de-aerated using a spiked roller. It is recommended to wear spiked shoes for this operation which enable the applicator to walk in the freshly applied coating.

For sloping and vertical surfaces, 2 – 4 % of the thixotrope VIASOL X906 should be added and the coating applied in 2 coats by trowel. A twice applied VIASOL EP-C546 AS (e.g. vertical surfaces) is not conductive in each case.

Use VIASOL SO-X10 to clean tools and contaminated areas.

Note for conductive systems:

To check the conductivity values are the assessment report "Conductive coatings for industrial floors" of the German Construction Chemicals Association recommended.

Note: Prior to application of the conductive coating VIASOL EP-C546 AS the conductive layer VIASOL EP-E436 must be measured.

Area coating system	Number of measurements
< 10 m ²	1 measurement / m ²
10 – 100 m ²	10 – 20 measurements
> 100 m ²	10 measurements / 100 m ²

Distance between the measurement points at least 50 cm. If the required measurement value is not reached, further measurements must be carried out within a radius of 50 cm.

(C) Technical data

Mixture (A+B)

1. Mixing ratio A : B by weight	100 : 18
2. Working time (20 °C)	approx. 30 minutes
3. Application temperature	10 – 30 °C (min. 3 K above the dew point)
4. Consumption	approx. 2500 g/m ²
5. Foot traffic (20 °C)	after approx. 24 h
6. Following coating (20 °C)	within 12 – 24 h
7. Loading mechanical (20 °C) ready for traffic:	after 10 d
pneumatic tyres	after 14 d
pallet trucks	after 21 d
chemical (20 °C)	after 10 d

Overcoating

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

Overcoating without a re-application of the conductive primer will lead to a loss of conductivity.

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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 or contact us directly).

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