

Product 01054900

2-C-EP top coating, high chemical resistance, conductive, total solid

1 General data

Fields of application

VIASOL EP-C549 AS is used as a highly chemically resistant and conductive top coating for industrial floors and in catch basins for protection against substances hazardous to water according to § 62 WHG (Water Resources Law).

Furthermore, the product can be used for other industrial surfaces with mechanical and chemical load (HBV surfaces).

Product description

VIASOL EP-C549 AS is a coloured, ready-to-use, solvent-free (total solid) 2-component coating made of high-quality, elasticized epoxy resin. VIASOL EP-C549 AS can be used for conductive coating systems according to § 62 WHG. The coating is tough-elastic, static crack-bridging, easy to clean and has very good resistance to fuels and lubricants, most solvents and many other chemicals.

Epoxy resins are generally not color-stable under the influence of UV light and weathering and may turn yellow; the technical properties are not negatively affected by this.

Properties

- Highly resistant to chemicals
- Statically crack-bridging up to 0.4 mm (according to abZ)
- Conductive
- Liquid-tight
- Solvent-free
- Can be driven over with Vulkollan and polyamide wheels

VIASOL systems

VIASOL EP-C549 AS is the top coat of the system

VIASOL *WHG neo conductive*

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 application of VIASOL products, please refer to the VIASOL System Planner or contact VIACOR Polymer GmbH directly.

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Manufacturer:

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

(A) Technical data

Mixture (A+B)

1. Density (23 °C)	1,16 – 1,24 g/cm ³
2. Viscosity (23 °C)	1160 – 1740 mPas
3. Packing size (2-component packing)	30 kg (20 kg A + 10 kg B)
4. Colours	Ca. RAL 7032, 7001, 7012, 7016, 7023, 7030, 7035, 7038, 7042, 1001, 3009, 5014, 6011
5. Shelf life (unopened original containers)	Min. 12 months (Please note the batch imprint on the container*)
6. Storage conditions	Dry at 15 – 20°C, avoid exposure to direct sunlight

* First digit corresponds to the final digit of the year, second and third digit correspond to the calendar week until the end of shelf life

(B) Technical data

Cured material

1. Static crack-bridging	0.4 mm
2. Adhesive tensile strength EN 1542 (after 28 d)	> 2.0 N/mm ²
3. Shore-D hardness DIN 53505-D, EN ISO 868	67

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2 Application method

Please note our General Application Guideline.

Substrate Preparation

The substrate must be dry and free from oily, greasy or separating impurities as well as loose parts, etc. The substrate must be dry and free from greasy or separating impurities. An adhesive tensile strength of at least 1.5 N/mm² and sufficient load-bearing capacity must be ensured. The substrate temperature must be above 8°C and 3°C above the dew point.

VIASOL EP-C549 AS is applied on a primer or scratch coat. For the build-up in the VIASOL **WHG neo conductive** system, the material is applied on the conductive layer VIASOL EP-E439. The recoating must be carried out within the specified time interval according to the AbZ.

Application

The A-component must be stirred up. The B-component container must be completely emptied into the A-component container. After mixing with an electric stirrer (max. 300 rpm, min. 3 min), the mixture is repotted and briefly stirred again. The temperatures of the components must be at least 15°C during mixing. Stirring in of air must be avoided. We recommend processing in batches.

VIASOL EP-C549 AS is poured onto the surface to be coated and applied with a notched trowel/squeegee for layer thickness control (e.g. Polyplan No. 48). The liquid coating must then be re-rolled with a spiked roller. The applicator wears nail shoes to be able to walk on the wet coating. The consumption quantities must be checked at regular intervals.

Depending on the angle of inclination, up to 2 wt.% of VIASOL X906 is added to the material for inclined surfaces and up to 4 wt.% for vertical surfaces.

VIASOL SO-X10 Tool Cleaner is used for cleaning tools and other contaminants.

Note for conductive systems:

For checking the conductivity, the guide values according to the status report "Conductive coatings for industrial floors" Deutsche Bauchemie e.V. are recommended. Before applying the conductive flow coating VIASOL EP-C549 AS, the conductive layer VIASOL EP-E439 must be measured (see right).

(C) Technical data

Mixture (A+B)

1. Mixing ratio A : B by weight	100 : 50
2. Working time	ca. 60 min
10°C	ca. 25 min
23°C	ca. 15 min
30°C	
3. Application conditions	Min: 8°C, 75% rel. humidity Max: 30°C, 80% rel. humidity (Min. 3°C above the dew point)
4. Material consumption up to 0.4 mm crack- bridging (acc. abZ)	2.5 kg/m ²
5. Foot traffic	ca. 24 h
10°C	ca. 18 h
23°C	ca. 12 h
30°C	
6. Consequent coating	Min. 24 h, max. 3 d
10°C	Min. 18 h, max. 3 d
23°C	Min. 12 h, max. 1 d
30°C	
7. Full exposure to mechanical and chemical load (23°C, 50 % rel. humidity)	after 7 d

Area of 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.

Overcoating without a re-application of the conductive layer 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).