

Product 01043900
2-C-EP conductive layer for VIASOL WHG neo conductive

1 General data

Fields of application

Together with copper tape, VIASOL EP-E439 is used as the conductive layer in industrial floor coatings acc. the German Water Protection Law (WHG).

Product description

VIASOL EP-E439 is a black, ready to use 2-component conductive primer based on high quality epoxy resin. VIASOL EP-E439 forms the conductive layer under the coating VIASOL EP-C549 AS in the system VIASOL **WHG neo conductive**.

Properties

- High horizontal conductivity
- Water-based
- Good adhesion to substrate and following coating
- economic consumption
- For water protection acc. to WHG

VIASOL Systems

VIASOL EP-E439 is the conductive primer for the VIASOL systems:

VIASOL **WHG neo conductive**

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 7472 94999-0

E-Mail: info@viacor.de

(A) Technical data

Liquid Mixture (A+B)

1. Density (23°C)	1.2 – 1.4 g/cm ³
2. Pack size (2-Component pack)	12 kg (10 kg A + 2 kg B)
3. Colour	black
4. Shelf-life (unopened original container)	Min. 12 months (Please note the batch imprint on the container*)
5. 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. Pull off strength EN 1542 (after 28 d)	> 2,0 N/mm ²
2. Resistance to earth (DIN EN 1081 DIN EN 61340-4-1)	≤ 5 x 10 ³ Ω

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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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. 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. For coating systems according to WHG, VIASOL EP-E439 is applied on the substrate primed with VIASOL EP-P239 or the scratch coat of VIASOL EP-P239. The unprimed undercoat must be thoroughly cleaned beforehand. The primer must be cured tack-free everywhere, only then may the conductive layer be applied to ensure adhesion and conductivity.

First, copper strips are glued to the prepared substrate (copper strips at intervals of max. 10 m or one copper strip per room), which are to be connected to the potential equalization by the electrician.

Application

The product is supplied in matched quantities in 2-component containers. The B-component must be completely emptied into the previously stirred A-component. The material is to be diluted with approx. 10% water. Both components are to be mixed homogeneously for at least 3 minutes with a mechanical stirrer (max. 300 rpm). Stirring in of air is to be avoided. The mixture must be repotted and stirred again briefly. The temperature of the individual components must be at least 15 °C.

VIASOL EP-E439 is poured onto the surface to be coated and spread by means of a rubber slider or roller and rolled on. Puddle formation must be avoided. VIASOL EP-E439 must not be sanded.

Use water 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-C549 AS the conductive layer VIASOL EP-E439 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 : 20
2. Working time	approx. 120 minutes
10 °C	approx. 60 minutes
20 °C	approx. 45 minutes
30 °C	
3. Application conditions	Min. 10 °C, 75% rel. humidity Max. 30°C, 75 rel. humidity (min. 3 K above dew point)
4. Consumption	150 – 200 g/m ²
5. Following coating (20 °C)	After min 12 h, max 48 h

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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-Guidlines (EU 2004/42/EG)

The maximum allowable VOC content for Product Category IIA j Type wb products (in the ready to use state) is:
Stage II (from 2010) < 140 g/l VOC

In the ready to use state, this product contains less than 140 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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