

VIASOL EP-E436 Technical Data Sheet

Product 01043600 2-C-EP conductive primer, black

1 General data

Fields of application

Together with copper tape, VIASOL EP-E436 is used as the conductive primer in industrial floor coatings (acc. the German Water Protection Law (WHG) or for ESD-areas.

Product description

VIASOL EP-E436 is a black, ready to use 2-component conductive primer based on high quality epoxy resins. VIASOL EP-E436 forms the conductive primer under the coating VIASOL EP-C546 AS in the system VIASOL **WHG conductive N** or VIASOL EP-C544 ESD in the system VIASOL **UNIVERSAL ESD**.

Properties

- conductive according to EN 1081 und EN 61 340-4-1
- end of pot life is visible
- water borne
- economic consumption

VIASOL Systems

VIASOL EP-E436 is the conductive primer for the VIASOL systems:

VIASOL **UNIVERSAL ESD**
VIASOL **WHG conductive N**

Building Inspection Approval: Z-59.12-395

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

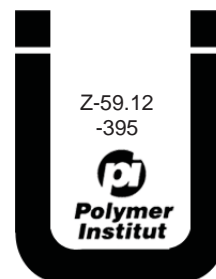
Mixture (A+B)

1. Solids content	> 40 %
2. Density (20°C)	1.1 g/cm ³
3. Pack size (2-Component pack)	6 kg (4.98 kg A + 1.02 kg B)
4. Colour	black
5. Shelf-life (20 °C)	12 months
6. Storage	Dry and frost free at 10 – 25°C, avoid exposure to direct sunlight

(B) Technical data

Cured Material

1. Pull off strength (DIN EN ISO 4624)	> 1,5 N/mm ²
2. Resistance to earth (DIN EN 1081 DIN EN 61340-4-1)	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

Substrate preparation

For the WHG-system, VIASOL EP-E436 is applied either to the primer VIASOL EP-P236 or to a scratch primer made from VIASOL EP-P236. It is important that neither the VIASOL EP-P236 primer nor the scratch coat are broadcast with sand. The surface to be coated must be cleaned thoroughly and are free of any tackiness before application of the VIASOL EP-E436.

For the ESD system, a suitable primer depending on the substrate must be used.

The surface to be coated must be clean and dry and free from any substances which may impair adhesion. Before the conductive primer is applied, the copper tape is applied (at least one tape per 100 m² or at least one tape per room. The copper tape should be earthed by a qualified electrician.

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

The mixed VIASOL EP-E436 is poured out onto the surface to be coated and thinly spread with a short napped lambs wool roller. Avoid ponding. A consumption of more than 100 g/m² can lead to a loss in adhesion and can influence the electrical resistance. The conductive primer may not be broadcast with sand.

Use water or 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 or VIASOL EP-C544 ESD 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.

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(C) Technical data

Mixture (A+B)

1. Mixing ratio A : B by weight	100 : 20
2. Working time (20 °C)	approx. 60-120 minutes
3. Application temperature	10 – 30 °C (min. 3 K above the dew point)
4. Consumption	80 – 100 g/m ²
5. Foot traffic (20 °C)	after approx. 13 h
6. Following coating (20 °C)	within 12 – 24 h

Overcoating

The conductive body coat should be applied directly to the VIASOL EP-E436 after 15 – 24 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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