







## VIASOL system data sheet

### VIASOL **UNIVERSAL HBV voltex SR**

Slip resistant, conductive, high chemical resistant epoxy resin based coating system, with hard-wearing and very good mechanical and chemical properties, according to DIN EN 1081 and DIN EN 61340-4-1.

#### SYSTEM BUILD-UP

-  Top coat chemical resistant  
**VIASOL EP-C536 N**
-  Wear coat chemical resistant, broadcasted with SIC or SIC/QS mixture  
**VIASOL EP-C546 AS**
-  Conductive layer with copper tape:  
**VIASOL EP-E436**
-  Scratch coat, levelling coating  
**VIASOL EP-C500**
-  Primer for cementitious substrates:  
**VIASOL EP-T703 or other**
-  Substrate: concrete, cementitious screed, others on request

#### SYSTEM HIGHLIGHTS

- Conductivity (DIN EN 1081, DIN EN 61340-4-1)
- High chemical resistant accord. to DiBT test liquids.
- Slip resistant surface

#### SYSTEM THICKNESS

2.0 – 4.5 mm



#### APPLICATION FIELDS

- Chemical and pharmaceutical industry
- Production areas with chemical loads
- Workshops
- Warehouses and high bay storage
- Secondary containment

#### SYSTEM BENEFITS

- Wear resistant, capable of bearing medium mechanical loads
- Conductive acc. to DIN EN 1081 and DIN 61340-4-1
- High abrasion and impact resistance
- Very good chemical resistance
- Joint less, seam less
- Impermeable to liquids
- Statically crack bridging properties
- Good adhesion to concrete and other substrates, with special primers also suitable on substrates with rising water
- Slip resistant surface ca. R10 / R11 / R 12
- Fire resistance class B<sub>fl</sub>-s1



#### Manufacturer:

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### APPLICATION AND CONSUMPTION

| layer   | Product   | consumption (kg/m <sup>2</sup> ) | sand broadcasting (kg/m <sup>2</sup> )       | thickness mm | application  |
|---|---|----------------------------------|--|--------------|--|
| Self-levelling coating chemical resistant     | VIASOL EP-C536 N  | 0.55 – 1.0                       | none   | 0.5 – 0.9    | squeegee and finish with roller                        |
| Wear coat, broadcasted with SIC or SIC/QS mix | VIASOL EP-C546 AS   | 2.0 – 3.0 in excess              | SIC or SIC/QS mix<br>SIC F46 – F20 in excess | 1.5 – 2.5    | notched trowel or squeegee + spike roller!             |
| Conductive layer incl. copper tape            | VIASOL EP-E436  | 0.08 – 0.10                      | none   | 0.06 – 0.08  | roller, squeegee + roller                              |
| Scratch coat, levelling layer (optional)      | VIASOL EP-C500 (fillable 10-30% with VIASOL QNV0)   | 0.5 – 2.0 + 0.05 – 0.6 QNV0      | none   | 0.5 – 2.0    | trowel or rubber squeegee / notched trowel or squeegee |
| Primer  | VIASOL EP-T703  | 0.3 – 0.5                        | QS 0.3 – 0.8 mm                              | 0.2 – 0.3    | roller, squeegee + roller                              |
| Substrate                                     | Cementitious substrates according to the appropriate standards and approvals must be capable of bearing loads and be free of cracks and voids. Pull-off strength $\geq 1.5 \text{ N/mm}^2$ , residual moisture content $< 4 \%$ -CM, with higher residual moisture and on substrates with moisture from the backside special measures must be taken or a damp proof membrane must be installed. Substrate preparation e.g. grinding or shot blasting, sweeping and vacuum-cleaning is mandatory. Consumptions are calculated with VIASOL quartz sands and fillers. Usage of other quartz sands and fillers can cause changes of consumption and technical data. |                                  |  |              |  |
| Note  | Detailed application instructions are available upon request or refer to the technical product data sheet.  |                                  |  |              |  |

### TECHNICAL DATA

| property                   | standard                                | result   |
|----------------------------|---|--|
| Conductivity               | EN 1081<br>EN 61340-4-1<br>EN 61340-4-5 | $\leq 10^6 \Omega$ (Rg)<br>$\leq 10^9 \Omega$ (Rg)<br>$< 100 \text{ Volt}$ (body voltage)**  |
| Slip resistance            | DIN 51130 and ASR 1.5/1.2               | R10 / R11 / R12  |
| Shore-Hardness             | EN ISO 868                              | D 60 after 28 d  |
| Adhesive strength          | EN ISO 4624                             | $> 2.0 \text{ N/mm}^2$ (concrete failure)  |
| Impact strength            | EN 13813                                | $\geq 4 \text{ Nm}$ (IR4)  |
| Wear resistance (Taber)    | EN ISO 5470-1                           | $\leq 75 \text{ mg}$   |
| Solvent free / Total solid | Test method "Deutsche Bauchemie"        | $\leq 1 \%$  |
| Chemical Resistance        | EN ISO 2812-1                           | Test liquids DiBt: 1, 1a, 3, 3b, 4, 4a, 4c, 5, 5a, 5b, 6, 6b, 7, 7a, 7b, 8, 8a, 9, 9a, 10, 11, 12, 13, 14, 15a (more see chemical resistance list) |
| Fire Resistance            | EN 13501-1                              | B <sub>fl</sub> -S1  |

Remark: For further information, please refer to the product data sheets or contact our technical service. All data are approximate values. Therefore, no liability claims can be derived from the system data sheet. 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)– all technical information is subject to change without prior notice

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