

## VIASOL system data sheet


### VIASOL **UNIVERSAL voltex**


Conductive, versatile epoxy based flooring system, hard-wearing, good mechanical and chemical properties with a wide range of colours. Meet EN 1081 and EN 61340-4-1.

#### SYSTEM BUILD-UP

Optional:  
Dissipative floor emulsion

 Self-levelling coating  
**VIASOL EP-C540 AS<sup>VM</sup>**

 Conductive layer with copper tape:  
**VIASOL EP-E480<sup>VM</sup>**

 Scratch coat, levelling coating  
**VIASOL EP-C500<sup>VM</sup> (recommended)**

 Primer for cementitious substrates:  
**VIASOL EP-P210<sup>VM</sup> or others**

 Substrate:  
Concrete, cementitious screed, and others

#### SYSTEM THICKNESS

1.5 – 3.0 mm



#### SYSTEM HIGHLIGHTS

- High wear resistance
- Conductive, meet EN 1081 and EN 61340-4-1
- Hygienic, complies with regulations of food and beverage industry (ISEGA certified)
- TÜV-ProfiCert certified

#### APPLICATION FIELDS

- Logistic sites and warehouses
- Production areas in electronic, pharmaceutical and chemical industry
- Laboratories and clean rooms
- Hospitals and surgeries
- Technical rooms, generator rooms
- IT and Data centre



#### SYSTEM BENEFITS

- Wear resistant, capable of bearing medium to heavy loads
- Low odor, solvent free, does not taint food
- High abrasion and impact resistance
- Good chemical resistance
- Hygienic, complies with regulations of EU food industry (ISEGA certified)
- Easy cleaning surface, low maintenance
- Self-leveling,
- Seamless
- Impervious to liquids
- Available in many colors
- Meet EN 1081 and EN 61340-4-1
- Fire resistance class B<sub>fl-s1</sub>

#### Manufacturer:

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#### SUBSTRATE REQUIREMENT

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  $< 4 \text{ \%}$ -CM, with higher residual moisture and on substrates with moisture from the slab 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.

Detailed application instructions are available upon request or refer to the technical product data sheet. Epoxy resins are in general not UV- and colour stable. We recommend not using bright colours which increase this effect. Please ask our technical service for more information

#### TECHNICAL DATA



| property                   | standard                            | result   |
|----------------------------|-------------------------------------|--|
| Compressive strength       | EN 196 / ASTM C109                  | approx. 70 N/mm <sup>2</sup>                                       |
| Flexural strength          | EN 196 / ASTM C109                  | approx. 40 N/mm <sup>2</sup>                                       |
| Conductivity               | EN 1081<br>EN 61340-4-1             | $\leq 10^8 \Omega \text{ (Rg)}$<br>$\leq 10^9 \Omega \text{ (Rg)}$ |
| Shore-Hardness             | EN ISO 868                          | D 82 after 28 d  |
| Adhesive strength          | EN ISO 4624                         | $>2.5 \text{ N/mm}^2$ (concrete failure)                           |
| Impact strength            | EN 13813                            | $\geq 4 \text{ Nm}$ (IR4)  |
| Wear resistance (Taber)    | EN ISO 5470-1                       | $\leq 80 \text{ mg}$   |
| Solvent free / Total solid | Test method<br>"Deutsche Bauchemie" | $\leq 1 \text{ \%}$ (not valid for water based seal coat)          |
| Chemical Resistance        | EN ISO 2812-1                       | Test liquids 3, 10, 11<br>(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.asia](http://www.viacor.asia) or contact us directly)– all technical information is subject to change without prior notice  
VIACOR products are guaranteed against defective material and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies which can be obtained on request.

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