






## VIASOL system data sheet

### VIASOL **UNIVERSAL HBV voltex**

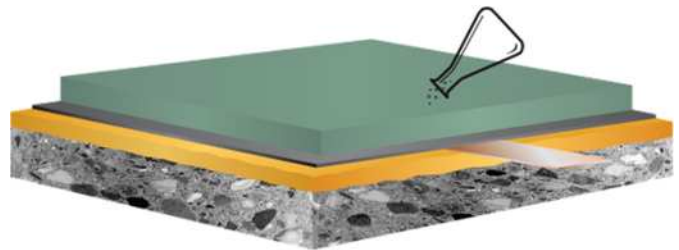
Conductive, high chemical resistant epoxy resin based coating system, with hard-wearing and very good mechanical and chemical properties, slightly crack bridging, according to DIN EN 1081 and DIN EN 61340-4-1.

#### SYSTEM BUILD-UP

-  Self-levelling coating chemical resistant  
VIASOL EP-C546 AS
-  Conductive layer with copper tape:  
VIASOL EP-E436
-  Scratch coat, levelling coating  
VIASOL EP-C500 or EP-T703 (optional)
-  Primer for cementitious substrates:  
VIASOL EP-P203 or EP-T703 or other
-  Substrate: concrete, cementitious screed,  
others on request

#### SYSTEM THICKNESS

2.0 – 3.0 mm



#### SYSTEM HIGHLIGHTS

- Conductivity (DIN EN 1081, DIN EN 61340-4-1)
- High chemical resistant accord. to DiBT test liquids.
- Slightly crack bridging properties

#### APPLICATION FIELDS

- Chemical and pharmaceutical industry
- Production areas with chemical loads
- Workshops
- Warehouses and high bay storage
- Laboratories
- 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
- Hygienic, complies with regulations of EU food industry (ISEGA certified)
- Self-leveling, joint less, seam less
- Impermeable to liquids
- Statically crack bridging properties
- Available in tested colors, other on request
- Good adhesion to concrete and other substrates, with special primers also suitable on substrates with rising water
- Slightly slip resistant surface possible
- 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 conductive coating	VIASOL EP-C546 AS	2.0 – 3.0	optional SIC F70 0.02 – 0.08	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
Alternative	VIASOL EP-T703 (fillable 50-100% with VIASOL QNV0)	0.5 – 2.0 + 0.25 – 1.0 QNV0	optional QS 0.3 – 0.8 mm	0.5 – 2.0	trowel or rubber squeegee / notched trowel or squeegee
Primer	VIASOL EP-P203 or VIASOL EP-T703	0.3 – 0.5	optional 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 $\geq 1.5$ N/mm <sup>2</sup> , 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 EN 61340-4-1 EN 61340-4-5 just with Jontec ESD**	$\leq 10^6 \Omega$ (Rg) $\leq 10^9 \Omega$ (Rg) < 100 Volt (body voltage)**
Crack bridging	DIN EN 1062-7	$\leq 0.2$ mm
Shore-Hardness	EN ISO 868	D 60 after 28 d
Adhesive strength	EN ISO 4624	>2.0 N/mm <sup>2</sup> (concrete failure)
Impact strength	EN 13813	$\geq 4$ Nm (IR4)
Wear resistance (Taber)	EN ISO 5470-1	$\leq 75$ 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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