VIASOL system data sheet

VIASOL*UNIVERSAL voltex*

Conductive, versatile epoxy resin based coating system, with hard-wearing and good mechanical and chemical properties and a wide spectrum of colours and surface structures. Accord. to DIN EN 1081 and DIN EN 61340-4-1.

SYSTEM *BUILD-UP*

Optional:
Dissipative floor emulsion

Optional:
Conductive matt seal coat
VIASOL PU-S6005P ESD

Self-levelling, conductive coating
VIASOL EP-C540 AS

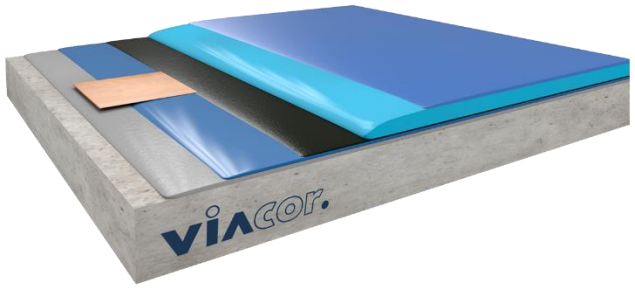
Conductive layer with copper tape:
VIASOL EP-E1480

Scratch coat, levelling coating
VIASOL EP-C500 / EP-C503 (recommended)

Primer for cementitious substrates:
VIASOL EP-P203 or other

Substrate: concrete, cementitious screed, and others

SYSTEM *THICKNESS* **2.0 – 5.0 mm**



APPLICATION *FIELDS*

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

SYSTEM *BENEFITS*

- Wear resistant, capable of bearing medium 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)
- Self-leveling, joint less, seam less
- Impermeable to liquids
- Available in many colors
- Accord. to EN 1081 and EN 61340-4-1
- Slightly slip resistant surface possible
- Fire resistance class C_{fl}-s1

Manufacturer:
VIACOR Polymer GmbH, Graf-Bentzel-Str.78, D-72108 Rottenburg, Tel: +49 7472 94999-0, info@viacor.de, www.viacor.de

VIASOL system data sheet

VIASOL*UNIVERSAL voltex*

APPLICATION *AND* CONSUMPTION

layer	product	consumption (kg/m²)	sand broadcasting (kg/m²)	thickness mm	application
Dissipative floor emulsion (optional)	e.g. TASKI Jontec ESD (for better clean ability)	2 x 40 – 50 ml	None	-	microfiber wiper
(optional) Conductive matt seal coat	VIASOL PU-S6005P ESD	0.14 – 0.18	None	0.08 – 1.2	Microfiber roller
Conductive self-levelling coating	VIASOL EP-C540 AS	1.6 – 2.5	optional SIC F70 0,02 – 0,08	1.2 – 2.0	notched trowel or squeegee (+ spike roller)
Conductive layer incl. copper tape	VIASOL EP-E1480	0.08 – 0.10 + 20 % water	None	0.06 – 0.08	roller, squeegee + roller
Scratch coat, levelling layer (optional)	VIASOL EP-C500 or VIASOL EP-C503 (fillable 10-20% with VIASOL QNV0)	0.8 – 2.0 + 80 – 400 QNV0	None	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
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 ≥ 1.5 N/mm², 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
Compressive strength	EN 196 / ASTM C109	approx. 70 N/mm²
Flexural strength	EN 196 / ASTM C109	approx. 40 N/mm²
Conductivity	EN 1081 EN 61340-4-1	≤ 10^6 Ω (Rg) ≤ 10^9 Ω (Rg)
Shore-Hardness	EN ISO 868	D 82 after 28 d
Adhesive strength	EN ISO 4624	>2.5 N/mm² (concrete failure)
Impact strength	EN 13813	≥ 4 Nm (IR4)
Wear resistance (Taber)	EN ISO 5470-1	≤ 80 mg
Solvent free / Total solid	Test method “Deutsche Bauchemie”	≤ 1 % (not valid for water based seal coat)
Chemical Resistance	EN ISO 2812-1	Test liquids 3, 10, 11 (more see chemical resistance list)
Fire Resistance	EN 13501-1	B_{fl}-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 or contact us directly) – all technical information is subject to change without prior notice

Manufacturer:
VIACOR Polymer GmbH, Graf-Bentzel-Str.78, D-72108 Rottenburg, Tel: +49 7472 94999-0, info@viacor.de, www.viacor.de