


VIASOL system data sheet

VIASOL **UNIVERSAL SKY voltex**


Conductive epoxy resin based coating system with effect fillers, with hard-wearing and good mechanical and chemical properties and a wide spectrum of SKY colours and surface structures. Accord. to DIN EN 1081 and DIN EN 61340-5-1.


SYSTEM BUILD-UP


Optional:
Dissipative floor emulsion

 Self-levelling coating
VIASOL EP-C540 SKY 10 / 20 / 30

 Conductive layer with copper tape:
VIASOL EP-E480/E1480

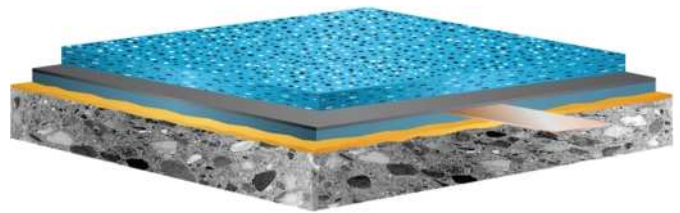
 Scratch coat, levelling coating
VIASOL EP-C500 (recommended)

 Primer for cementitious substrates:
VIASOL EP-P203, EP-T703 or other

 Substrate: concrete, cementitious screed, and others

SYSTEM THICKNESS

2.0 – 5.0 mm



SYSTEM HIGHLIGHTS

- Decorative appearance
- High wear resistance
- Conductive accord. DIN EN 1081 and DIN EN 61340-5-1
- Hygienic, complies with regulations of food and beverage industry (ISEGA certified)

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 SKY colors
- Accord. to EN 1081 and EN 61340-5-1
- Slightly slip resistant surface possible
- Fire resistance class B_{fl}-s1

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APPLICATION AND CONSUMPTION

layer	Product	consumption (kg/m ²)	sand broadcasting (kg/m ²)	thickness mm	application
Dissipative floor emulsion (optional)	e.g. TASIK Jontec ESD (for better cleanability)	2 x 40 – 50 ml	none	-	microfiber wiper
Conductive self-levelling coating (1)	VIASOL EP-C540 SKY	1.8 – 2.5	none	1.3 – 2.0	notched trowel or squeegee (+ spike roller)
Conductive layer incl. copper tape	VIASOL EP-E480/ EP-E1480	0.08 – 0.10 + 20 % water	none	0.06 – 0.08	roller, squeegee + roller
Scratch coat, levelling layer (optional)	VIASOL EP-C500 (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 notched 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/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. (1) 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 ²
Flexural strength	EN 196 / ASTM C109	approx. 40 N/mm ²
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)**
Shore-Hardness	EN ISO 868	D 82 after 28 d
Adhesive strength	EN ISO 4624	> 2.5 N/mm ² (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

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