

VIASOL system data sheet

VIASOL *UNIVERSAL voltex SR*

Slip resistant, conductive, epoxy resin based coating system, with hard-wearing and 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-S602 or EP-C500



Wear coat, broadcasted with SIC
or SIC/QS mixture
VIASOL EP-C540 AS



Conductive layer with copper tape:
VIASOL EP-E480



Scratch coat, levelling coating
VIASOL EP-C500 or EP-T703 (optional)



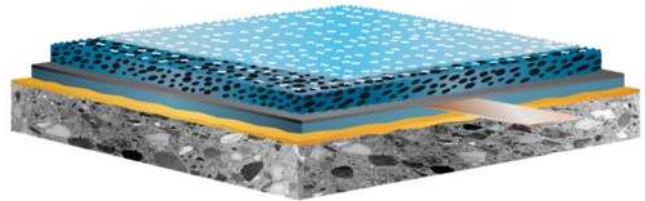
Primer for cementitious substrates:
VIASOL EP-P203 or EP-T703 or other



Substrate: concrete, cementitious screed,
others on request

SYSTEM THICKNESS

2.0 – 4.5 mm



SYSTEM HIGHLIGHTS

- Conductivity (DIN EN 1081, DIN EN 61340-4-1)
- Good chemical resistant
- Slip resistant surface

APPLICATION FIELDS

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



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
- Good chemical resistance
- Joint less, seam less
- Impermeable to liquids
- Many colours available
- 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_{fl}-s1

Manufacturer:

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APPLICATION AND CONSUMPTION

layer	product	consumption (kg/m ²)	sand broadcasting (kg/m ²)	thickness mm	application
Top coat	VIASOL EP-S602 or VIASOL EP-C500	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-C540 AS SIC F46 – F20	2.0 – 3.0 in excess	SIC or SIC/QS mix SIC F46 – F20 in excess	1.5 – 2.5	notched trowel or squeegee + spike roller!
Conductive layer incl. copper tape	VIASOL EP-E480 + 30 % water	0.08 – 0.10 incl. 30 % water	none	0.06 – 0.08	roller, squeegee + roller
Scratch coat, levelling layer (optional)	VIASOL EP-C500 (fillable 10-30% with VIASOL QNVO)	0.5 – 2.0 + 0.05 – 0.6 QNVO	none	0.5 – 2.0	trowel or rubber squeegee / notched trowel or squeegee
alternative	VIASOL EP-T703 (fillable 50-100% with VIASOL QNVO)	0.5 – 2.0 + 0.25 – 1.0 QNVO	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, 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 ≥ 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.				

TECHNICAL DATA

property	standard	result
Flexural strength	EN 196 / ASTM C109	approx. 40 N/mm ²
Compressive strength	EN 196 / ASTM C109	approx. 70 N/mm ²
Conductivity	EN 1081 EN 61340-4-1 EN 61340-4-5	$\leq 10^6 \Omega$ (Rg) $\leq 10^9 \Omega$ (Rg) < 100 Volt (body voltage)**
Slip resistance	DIN 51130 and ASR 1.5/1.2	R10 / R11 / R12
Shore-Hardness	EN ISO 868	D 82 after 28 d
Adhesive strength	EN ISO 4624	>2.0 N/mm ² (concrete failure)
Impact strength	EN 13813	≥ 4 Nm (IR4)
Wear resistance (Taber)	EN ISO 5470-1	≤ 80 mg
Chemical Resistance	EN ISO 2812-1	Test liquids DiBt: 3, 10, 11 (more see chemical resistance list)

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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