

VIASOL system data sheet

VIASOL *UNIFLEX* **conductive / ESD**

Conductive or dissipative polyurethane resin based coating system, with medium 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 61 340-5-1.

SYSTEM BUILD-UP

Recommended:

Dissipative floor emulsion

optional for UV stability and ESD values

Pigmented seal coat:

VIASOL PU-S648 AS

Conductive self-levelling coating

VIASOL PU-C540 AS

Conductive layer with copper tape:

VIASOL EP-E480

Pore sealer, levelling coating

VIASOL PU-C501 (recommended)

Primer for cementitious substrates:

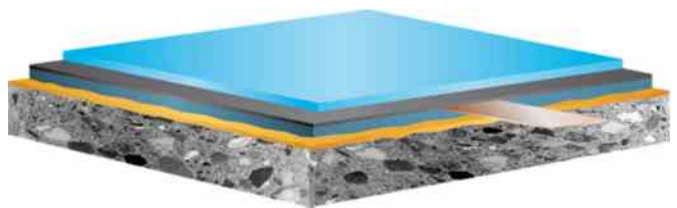
VIASOL EP-P260 or other



Substrate: concrete, cementitious screed
asphalt and others

SYSTEM THICKNESS

2.0 – 5.0 mm



SYSTEM HIGHLIGHTS

- Good wear resistance
- Statically crack bridging properties
- Hygienic, complies with regulations of food and beverage industry (ISEGA certified)
- Fulfil the ESD standards with seal coat

APPLICATION FIELDS

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

SYSTEM BENEFITS

- Good wear resistant
- Capable of bearing light to 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
- Very good UV- and colour stable with coloured seal coat
- Available in many colors
- Accord. to EN 1081 and EN 61340-5-1
- Slip resistant surface possible
- Fire resistance class B_{fl}-s1



Manufacturer:

VIACOR Polymer GmbH, Graf-Bentzel-Str.78, D-72108 Rottenburg,

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APPLICATION AND CONSUMPTION

layer	product	consumption (kg/m ²)	sand broadcasting (kg/m ²)	thickness mm	application
recommended Dissipative floor emulsion	e.g. TASIK Jontec ESD (for better cleanability)	2 x 40 – 50 ml	none	-	microfiber wiper
optional for UV resistance and ESD requirements Seal coat, coloured, matt	VIASOL PU-S648 AS	0.13 – 0.15	none	0.11 – 0.14	roller
Conductive self-levelling coating	VIASOL PU-C540 AS	1.8 – 2.5	none	1.3 – 2.0	notched trowel or squeegee (+ spike roller)
Conductive layer incl. copper tape	VIASOL EP-E480	0.08 – 0.10 + 20 % water	none	0.06 – 0.08	roller, squeegee + roller
Pore sealer, levelling layer (recommended)	VIASOL PU-C501 (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-P260	0.3 – 0.5	QS 0.3 – 0.8 mm 0.5	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.				

TECHNICAL DATA

property	standard	result
Compressive strength	EN 196 / ASTM C109	approx. 55 N/mm ²
Flexural strength	EN 196 / ASTM C109	approx. 59 N/mm ²
Conductivity ** with seal coat VIASOL PU-S648 AS	EN 1081 EN 61340-4-1 EN 61340-4-5	$\leq 10^6 \Omega$ (Rg) $\leq 10^9 \Omega$ (Rg) $\leq 3.5 \times 10^7 \Omega$ (Rg)** (also at < 40% rel. air humidity < 100 Volt (body voltage)**)
Shore-Hardness	EN ISO 868	D 65 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	≤ 50 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 (UNIFLEX)	EN 13501-1	B _f -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