


VIASOL system data sheet

VIASOL **UNIVERSAL ESD**


Dissipative, versatile epoxy resin based coating system, with middle wearing and good mechanical and chemical properties for the special requirements of EPA, accord. to DIN EN 61340-5-1, DIN EN 61340-4-1 and DIN EN 61340-4-5.


SYSTEM **BUILD-UP**


Optional:


 Conductive seal coat or dissipative floor emulsion: **VIASOL PU-S6005P ESD**

 Self-levelling coating **VIASOL EP-C3044 ESD**

 Conductive layer with copper tape: **VIASOL EP-E1480**

 Scratch coat, levelling coating **VIASOL EP-C3000** (recommended)

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

 Substrate: concrete, cementitious screed, and others

SYSTEM **THICKNESS**

2.0 – 5.0 mm



SYSTEM **HIGHLIGHTS**

- Fulfil ESD requirements for EPA's
- Conductive accord. DIN EN 61340-5-1, 4-1 and 4-5 incl. walking test
- Hygienic, complies with regulations of food and beverage industry (ISEGA certified)
- Low emission accord. to AgBB standard and other European standards
- TÜV-ProfiCert certified

APPLICATION **FIELDS**

- Production areas in electronic, pharmaceutical and chemical industry with special requirements for EPA's
- Laboratories
- Workshops



SYSTEM **BENEFITS**

- Good wear resistant, capable of bearing medium loads
- Low emission accord. to AgBB standard and other European standards
- Low odor, solvent free (total solid)
- Good 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. DIN EN 61340-5-1, 4-1 and 4-5 incl. walking test
- Slightly slip resistant surface possible
- Fire behavior Bfl-s1

Manufacturer:

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APPLICATION AND CONSUMPTION

layer	product	consumption (kg/m ²)	sand broadcasting (kg/m ²)	thickness mm	application
Optional: ESD top coat	VIASOL PU-S6005P ESD	0,13 – 0,18	none	0.1 – 0.14	Microfiber roller
Dissipative self-levelling coating	VIASOL EP-C3044 ESD	1.6 – 2.5	none	1.2 – 2.0	notched trowel or squeegee (+ spike roller)
Conductive layer incl. copper tape	VIASOL EP-E1480	0.08 – 0.10	none	0.06 – 0.08	roller, squeegee + roller
Scratch coat, levelling layer (recommended)	VIASOL EP-C3000 (fillable 10-20% VIASOL QNV0) pr	0.8 – 2.0 + 0.080 – 0.400	none	0.5 – 2.0	trowel or rubber squeegee / notched trowel or notched squeegee
Primer	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 $\geq 1.5 \text{ N/mm}^2$, residual moisture content $< 4 \% \text{-CM}$, 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. 44 N/mm ²
Flexural strength	EN 196 / ASTM C109	approx. 20 N/mm ²
Conductivity (Dissipative)	EN 61340-4-1 EN 61340-4-5 ESD** without and with floor emulsion or top coat	$\leq 10^9 \Omega \text{ (Rg)}$ $< 3.5 \times 10^7 \Omega \text{ (Rs)}$ (Shoe-Person-Floor)** $< 100 \text{ Volt}$ (body voltage)**
Shore-Hardness	EN ISO 868	D 58 after 28 d
Adhesive strength	EN ISO 4624	$> 2.5 \text{ N/mm}^2$ (concrete failure)
Impact strength	EN 13813	$\geq 4 \text{ Nm}$ (IR4)
Wear resistance (Taber)	EN ISO 5470-1	$\leq 60 \text{ mg}$
Solvent free / Total solid	Test method "Deutsche Bauchemie"	$\leq 1 \%$ (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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