

### VIASOL *DESIGN QCV ESD*

Decorative, low emission according to EN 61340-5-1 conductive and slip resistant coating system with good mechanical and chemical properties and a wide colour spectrum.

#### SYSTEM BUILD-UP

Transparent dissipative floor emulsion (optional)

Transparent finish 1F

VIASOL UREA-S6400 ESD or PU-S691 ESD



Wear coat conductive

VIASOL EP-Q3600 ESD with VIASOL QCV-ESD



Conductive layer with copper tape

VIASOL EP-E480 / EP-E1480



Levelling layer N1 - N4

VIASOL EP-N1300



Primer for cementitious substrates:

VIASOL EP-P203 / EP-T703 or other



Substrate: concrete, cementitious screed and others

#### SYSTEM THICKNESS

2.5 – 5.0 mm



#### SYSTEM HIGHLIGHTS

- Low emission accord. to AgBB standard and other European standards
- TÜV-ProfiCert certified
- Certified slip resistance and fire resistance classes
- Conductive accord. to EN 1081, EN 61340-5-1 and EN 61340-4-5 (walking test)

#### APPLICATION FIELDS

- Electronic industry with requirements for EPA
- Pharmaceutical industry
- Laboratories
- Chemical industry
- Engineering industry
- Public buildings



#### SYSTEM BENEFITS

- Excellent appearance
- Low emission accord. to AgBB standard and other European standards
- Conductive EN 1081, EN 61340-4-1 and also EN 61340-4-5
- Seam less and joint less
- High abrasion resistance, suitable for fork lift trucks and hand lifts
- Good chemical resistance
- Slightly to medium anti-skid surface
- Hygienic, no pores, impermeable to liquids
- Easy to clean and maintain
- Available in many colors
- With PU finish very high color and UV-stability and high resistance against discoloration from food and beverages
- Fire resistance class B<sub>fl</sub>-s1

#### Manufacturer:

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

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#### APPLICATION AND CONSUMPTION

layer	product	consumption (kg/m <sup>2</sup> )	sand broadcasting (kg/m <sup>2</sup> )	thickness mm	application
1 finish layer	VIASOL UREA-S6400 ESD or PU-S691 ESD	0.4 – 0.7	-	0.3 – 0.6	hard rubber squeegee, trowel
Decorative wear coat, conductive	VIASOL EP-Q3600 ESD	approx. 0.6 + QS	QCV-ESD in excess approx. 4.0	1.5 – 2.0	smoothing trowel (optional grinding)
Conductive layer with copper tapes	VIASOL EP-E480 / E1480	ca. 0.18	none	0.09 – 0.12	rubber squeegee and roller
Levelling layer	VIASOL EP-N1300/ VIASOL EP-N1300 S <sup>(1)</sup>	0.36 – 1.7 + QS	QNV1/QNV2 in excess approx. 1.5 – 3.5	0.5 – 4.0	notched trowel (grinding)
Primer (optional)	VIASOL EP-P203/ VIASOL EP-T703 or other	ca. 0.4	QNV2 optional approx. 0.5	ca. 0.3	roller or rubber squeegee
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
Flexural strength	EN 196 / ASTM C190	Approx. 40 N/mm <sup>2</sup>
Compressive strength	EN 196 / ASTM C190	approx. 78 N/mm <sup>2</sup>
Adhesive strength	DIN ISO 4624	$> 1.5 \text{ N/mm}^2$
Shore-Hardness	DIN ISO 868	80 D after 28 d
Water absorption coefficient	EN 1062-3	$< 0,01 \text{ kg}/(\text{m}^2 \times \text{h}^{0,5})$
Conductivity	EN 1081 EN 61340-4-1 EN 61340-4-5 EN 61340-4-5	$R_g \leq 10^6 \Omega$ $R_g \leq 10^9 \Omega$ $R_s \leq 3.5 \times 10^7 \Omega$ (Person-footwear floor) $< 100 \text{ V}$ (body voltage)
Impact strength	DIN EN 13813	$\geq 4 \text{ Nm}$ (IR4)
Wear resistance (Taber)	ISO 9352, ASTM D 1044	$\leq 395 \text{ mg}/1000$ (H22) $\leq 63.7 \text{ mg}/1000$ (CS17)
Chemical resistant	DiBT test liquids	No. 1, 3, 10, 11
Anti-skid properties	BGR 181 / DIN 51131	class R10 / R11 / R12
Fire behaviour class (system)	DIN EN 13501-1	B <sub>fl</sub> -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](http://www.viacor.de) or contact us directly) – all technical information is subject to change without prior notice.

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