

### VIASOL *PERM* **conductive**

Conductive, water-vapour permeable epoxy advanced resin based coating system, low odour, low emission, hard-wearing, water tight surface with good mechanical and chemical properties and a wide colour spectrum. Conductive according to EN 1081 and EN 61340-5-1

#### SYSTEM BUILD-UP

Recommended: dissipative floor emulsion  
e.g. TASKI Jontec ESD for better cleanability

Recommended: Conductive matt seal coat  
VIASOL PU-S6005P ESD



Self-levelling coating  
VIASOL EP-C5480 AS



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



Scratch coat, levelling coating  
VIASOL EP-C580 (recommended)



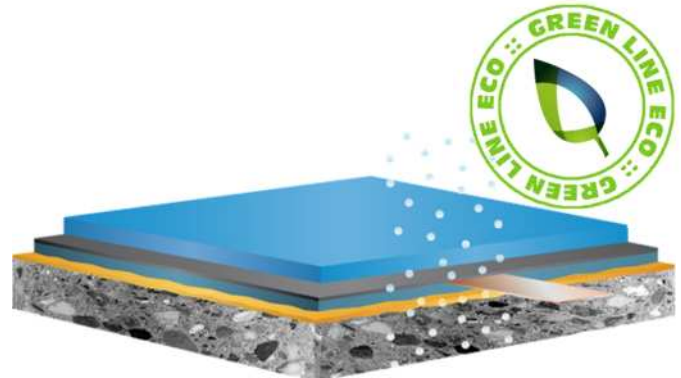
Primer for cementitious substrates:  
VIASOL EP-P285 or other



Substrate: concrete, cementitious screed,  
magnesite screed, other moisture sensitive

#### SYSTEM THICKNESS

2.0 – 5.0 mm



#### SYSTEM HIGHLIGHTS

- High water vapour permeable
- Very good colour stability indoor
- Low emission tested accord. AgBB guidelines and other European standards as M1, additional Green Label (Singapore)
- TÜV-ProfiCert Premium certified

#### APPLICATION FIELDS

- Public buildings
- Electronic industry
- Logistic sites and warehouses
- Production areas
- Paper mills and metal working industry
- Workshops
- Areas with moisture sensitive substrates



#### SYSTEM BENEFITS

- High water-vapor permeability, no blistering in situation subject to hydrostatic pressure
- Conductive according to EN 1081 and EN 61340-5-1
- Low emission, complies with green environmental requirements and AgBB
- Low odor, solvent free, does not taint food
- High abrasion and impact resistance
- Good chemical resistance
- Self-leveling, joint less, seamless
- Impermeable to liquids
- Very good colour stable indoor
- Available in many colors
- Good adhesion to concrete and other substrates
- Fire resistance class B<sub>fl</sub>-s1

#### Manufacturer:

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

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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
recommended Dissipative floor emulsion	e.g. TASIK Jontec ESD (for better cleanability)	2 x 40 – 50 ml	none	-	microfiber wiper
Conductive matt seal coat (optional)	VIASOL PU-S6005P ESD	0.14 – 0.18	none	0.08 – 0.12	microfiber roller
Self-levelling coating	VIASOL EP-C5480 AS	2.8 – 6.0	none	2.0 – 3.0	notched trowel + spike roller
Conductive layer incl. copper tape	VIASOL EP-E480	0.08 – 0.10 + 20 % water	none	0.06 – 0.08	roller, squeegee + roller
Scratch coat, levelling layer (recommended)	VIASOL EP-C580	1.0 – 2.0 + 5% water +10% QS 0.3-0.8	none	1.0 – 1.5	trowel
Primer	VIASOL EP-P285	0.2 – 0.4 + 10-20% water	optional QS 0.3 – 0.8 0.3 – 0.5	0.15 – 0.25	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 $\geq 1.5$ N/mm <sup>2</sup> , this system is water vapour permeable, max. residual moisture < 6 - 8% CM, for magnesite screed <10% CM, anhydrite max. 1% residual moisture, attention for underfloor-heating <0.3% CM, with higher residual moisture and on substrates with moisture from the backside special measures must be taken or a damp proof membrane should 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
Conductivity With ESD-polymeric wax or with conductive ESD top coat**	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) ** < 100 Volt (body voltage)**
Compressive strength	EN 196 / ASTM C109	approx. 55 N/mm <sup>2</sup>
Flexural strength	EN 196 / ASTM C109	approx. 16 N/mm <sup>2</sup>
Shore-Hardness	EN ISO 868	D 80 after 28 d
Water-vapour permeability	DIN 5261523/50-95	$\mu= 4000$
Adhesive strength	EN ISO 4624	>2.5 N/mm <sup>2</sup> (concrete failure)
Impact strength	EN 13813	$\geq 4$ Nm (IR4)
Wear resistance (Taber)	EN ISO 5470-1	$\leq 80$ mg
Low emission	AgBB and M1	Fulfilled after 3 days
Fire Resistance	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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