

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)



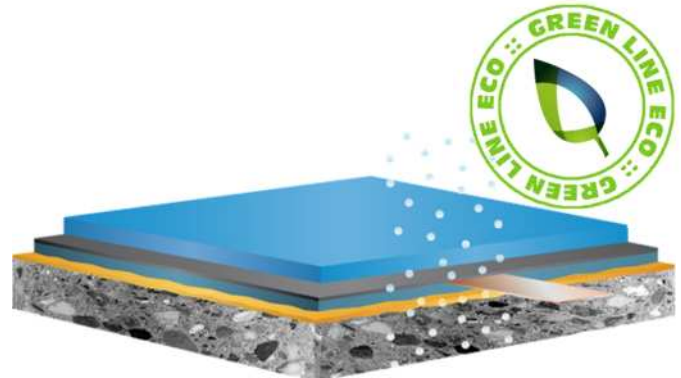
Primer for cementitious substrates:
VIASOL EP-P285 or other



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_{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 |
| 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 ≥ 1.5 N/mm ² , 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 ² |
| Flexural strength | EN 196 / ASTM C109 | approx. 16 N/mm ² |
| 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 ² (concrete failure) |
| Impact strength | EN 13813 | ≥ 4 Nm (IR4) |
| Wear resistance (Taber) | EN ISO 5470-1 | ≤ 80 mg |
| Low emission | AgBB and M1 | Fulfilled after 3 days |
| 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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