# VIASOL system data sheet GREEN LINE ECO

## VIASOL*PERM*

**Water-vapour permeable epoxy advanced resin based coating system, low odour, low emission, hard-wearing, water-proof surface with good mechanical and chemical properties and a wide colour spectrum.**

### SYSTEM*BUILD-UP*

Alternative transparent seal coat:
**VIASOL PU-S6005** e.g. if colour flakes are used

Coloured seal coat:
**VIASOL EP-S680 (matt) / EP-S681 (semi glossy) / PU-S6005 P (matt, colour stable)**

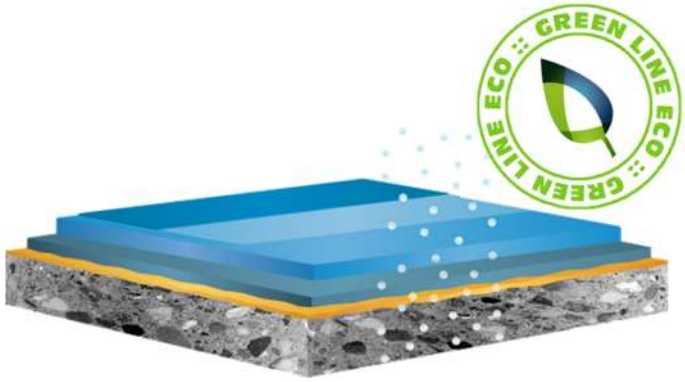
Self-levelling coating
**VIASOL EP-C580**

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 permeability
- 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
- Hospitals
- 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
- 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, jointless, seamless
- Impermeable to liquids
- Very good colour stability (indoor)
- Available in many colors
- Good adhesion to concrete and other substrates
- Fire resistance class $B_{fl}$-S1

**Manufacturer:**
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### APPLICATION *AND* CONSUMPTION

| layer | Product | consumption (kg/m²) | sand broadcasting (kg/m²) | thickness mm | application |
|---|---|---|---|---|---|
| Alternative: Seal coat, transparent, matt (if colour chips used)<br>or for colour stable option | VIASOL PU-S6005<br><br>VIASOL PU-S6005P | 0.10 – 0.12 | none | 0.08 – 0.1 | roller |
| Alternative: Seal coat, coloured, semi glossy | VIASOL EP-S681 | 0.15 – 0.25<br>+ 5 - 7 % water | none | 0.1 – 0.21 | roller or rubber squeegee + roller |
| Seal coat, coloured, matt | VIASOL EP-S680 | 0.15 – 0.25<br>+ 3 - 5 % water | none | 0.1 – 0.2 | roller or rubber squeegee + roller |
| Self-levelling coating | VIASOL EP-C580 | 2.8 – 6.0 | optional colour chips | 2.0 – 3.0 | notched trowel<br>+ spike roller |
| Scratch coat, levelling layer (recommended) | VIASOL EP-C580 | 1.0 – 2.0<br>+ 5%water<br>+10% QS 0.3-0.8 | none | 1.0 – 1.5 | trowel |
| Primer | VIASOL EP-P285 | 0.2 – 0.4<br>+ 10-20% water | optional QS 0.3 – 0.8<br>0.3 | 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/mm², 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 |
|---|---|---|
| Compressive strength | EN 196 / ASTM C109 | approx. 55 N/mm² |
| Flexural strength | EN 196 / ASTM C109 | approx. 16 N/mm² |
| E-Modulus | DIN 53504 | approx. 7000 N/mm² |
| Shore-Hardness | EN ISO 868 | D 80 after 28 d |
| Water-vapour permeability | DIN 52615 (23/50-95) | µ= 4000 |
| Adhesive strength | EN ISO 4624 | >2.5 N/mm² (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 |
| Green label Singapore | | Fulfilled |

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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