

VIASOL system data sheet

VIASOL *PERM* **conductive**


Conductive, water-vapour permeable epoxy advanced resin based flooring system, low odour, low emission, hard-wearing, water-tight surface with good mechanical properties, wide colour range. Conductive according to EN 1081 and EN 61340-4-1


SYSTEM BUILD-UP


Optional Conductive wax (satin)
e.g. Jontec ESD

 Self-levelling coating
VIASOL EP-C5480 AS^{VM}

 Conductive layer
VIASOL EP-E480^{VM}

 Scratch coat, levelling coating
VIASOL EP-C580^{VM} or EP-L380^{VM} (recommended)

 Primer for cementitious substrates:
VIASOL EP-P285^{VM}

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

SYSTEM THICKNESS

1.5 – 3.0 mm



SYSTEM HIGHLIGHTS

- High water vapour permeability
- Low emission tested according AgBB guidelines and other European standards as M1 classification
- TÜV-ProfiCert Premium certified
- Conductive properties meet EN 1081 and EN 61340-4-1

APPLICATION FIELDS

- Cleanrooms and Hospitals
- Semiconductor production
- Pharmaceutical manufacturing
- IT and data centre
- Logistic / distribution centre
- Areas with moisture sensitive substrates



SYSTEM BENEFITS

- High water-vapor permeability,
- Suitable for high moisture conditions
- Conductive according to EN 1081 and EN 61340-4-1
- Low emission, complies with green environmental requirements and AgBB
- Low odor, solvent free, does not taint food
- High abrasion and impact resistance
- Self-leveling, seamless
- Impervious to liquids
- Available in many colors
- Good adhesion to concrete and other substrates
- Fire resistance class B_{fl-S1}

Manufacturer:

VIACOR Asia Sdn Bhd., No. 5 Jalan Sungai Terap 32/182, Bukit Rimau Industrial Park, 40460 Shah Alam, Selangor Darul Ehsan, Malaysia, tel: +603 5131 7777, fax: +603 5131 7878, email: info@viacor.asia, www.viacor.asia – A division of VIACOR Polymer GmbH Germany

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SUBSTRATE REQUIREMENT

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 $\geq 1.5 \text{ N/mm}^2$, this system is water vapour permeable, max. residual moisture $< 6 - 8\% \text{ CM}$, for magnesite screed $< 10\% \text{ CM}$, anhydrite max. $1\% \text{ residual moisture}$, attention for underfloor-heating $< 0.3\% \text{ CM}$, with higher residual moisture and on substrates with moisture from the slab. 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	EN 1081 EN 61340-4-1	$\leq 10^6 \Omega \text{ (Rg)}$ $\leq 10^9 \Omega \text{ (Rg)}$
	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 transmission	ASTM E 96/E 96M:12	36.17 g/24.m^2
	Adhesive strength	EN ISO 4624	$> 2.5 \text{ N/mm}^2$ (concrete failure)
	Impact strength	EN 13813	$\geq 4 \text{ Nm (IR4)}$
	Abrasion resistance (CS17 Wheel)	ASTM D4060	$\leq 110 \text{ mg}$
	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.asia or contact us directly)– all technical information is subject to change without prior notice
VIACOR products are guaranteed against defective material and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies which can be obtained on request.

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