

# VIASOL UNIVERSAL ESD



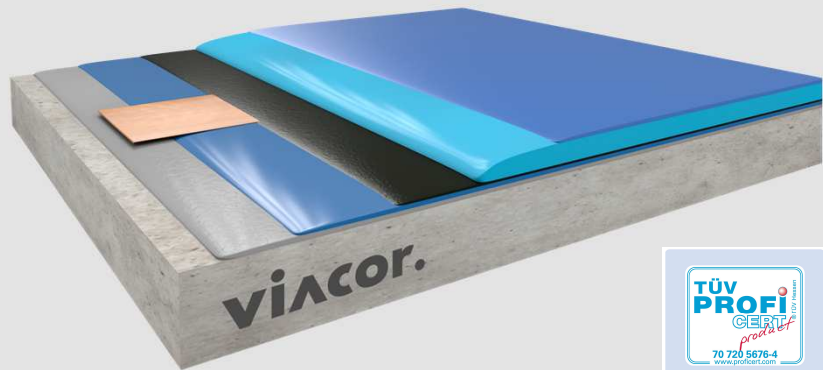
Dissipative, versatile epoxy resin based coating system, with medium mechanical and chemical resistance for the special requirements of EPA, conductivity accord. to DIN EN 61340-5-1, DIN EN 61340-4-1 and DIN EN 61340-4-5.

## Application fields

Electronic Industry	Workshops	Laboratories	Pharmaceutical Industry
Production areas	Chemical Industry		

## System build-up

<b>VIASOL PU-S6005 P ESD</b> SEALER	
<b>VIASOL EP-C3044 ESD</b> SELF-LEVELLING COATING	
<b>VIASOL EP-E1480</b> CONDUCTIVE LAYER	
<b>VIASOL EP-C3000</b> SCRATCH COAT	
<b>VIASOL EP-T703</b> PRIMER	



## System highlights

2.0 - 5.0 mm System thickness

Capable of bearing high loads	High abrasion resistance	Low emission accord. To AgBB standard
Hygienic (ISEGA certified)	Good chemical resistance	Dissipative acc. to ESD requirements

## System pictures





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## Application and Consumption

Layer	Product	Consumption (kg/m <sup>2</sup> )	Sand broadcasting (mm)	Thickness (mm)	Application
Optional: ESD sealer	VIASOL PU-S6005 P ESD	0,13 – 0,18	none	0,1 – 0,14	Microfiber roller
Dissipative self-levelling coating	VIASOL EP-C3044 ESD	1,8 – 2,5	none	1,5 – 2,0	notched trowel or squeegee (+ spike roller)
Conductive layer incl. copper tape	VIASOL EP-E1480	0,08 - 0,1 Inkl. 20% water	none	0,06 – 0,08	roller, squeegee + roller
Scratch coat, levelling layer (recommended)	VIASOL EP-C3000 (filled with 10-20% VIASOL QNV0)	0,8 – 2,0 (+ 0,08 – 0,4 QNV0)	none	0,5 – 2,0	trowel or rubber squeegee / notched trowel or notched squeegee
Primer	VIASOL EP-T703	0,3 – 0,5	Optional QS (0,3-0,8 mm) Ca. 0.5	0,2 – 0,3	Rubber squeegee, 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 $\geq 1.5 \text{ N/mm}^2$ , 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
Compressive strength	EN 196 / ASTM C109	Ca. 70 N/mm <sup>2</sup>
Flexural strength	EN 196 / ASTM C109	Ca. 40 N/mm <sup>2</sup>
Conductivity (Dissipative)	EN 61340-5-1 (2008 / 2017) EN 61340-4-1 (2016) EN 61340-4-5 (2005) EN 61340-4-5 (2017)	$\leq 10^9 \Omega \text{ (Rg)}$ $< 3.5 \times 10^7 \Omega \text{ (Rs) (Shoe-Person-Floor)}$ $< 1 \times 10^9 \Omega \text{ (Rs) (Shoe-Person-Floor)}$ $< 100 \text{ Volt (body voltage)}$
Shore-Hardness	EN ISO 868	D 58 after 28 d
Adhesive strength	EN ISO 4624	$> 2,5 \text{ N/mm}^2$ (concrete failure)
Impact strength	EN 13813	$\geq 4 \text{ Nm (IR4)}$
Wear resistance (Taber)	EN ISO 5470-1	$\leq 55 \text{ mg}$
Chemical resistance	EN ISO 2812-1	Test liquids 3, 10, 11 (more see chemical resistance list)
Solvent free / Total solid	Test method „Deutsche Bauchemie“	$\leq 1 \text{ \%}$ (not valid for water based seal coat)
Fire resistance	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

**Manufacturer:**