VIASOL system data sheet

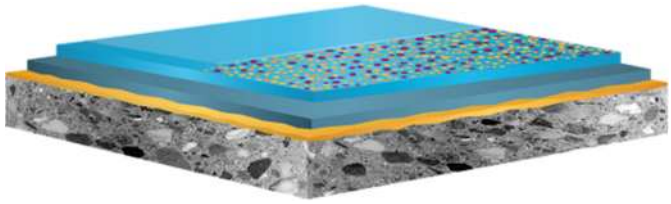
VIASOL*UNIVERSAL*

Versatile epoxy resin based coating system, with hard-wearing and good mechanical and chemical properties and a wide spectrum of colours and surface structures.

SYSTEM*BUILD-UP*

- Optional: Transparent seal coat e.g. if colour flakes are used: **VIASOL PU-S6005 (1) or pigmented VIASOL PU-S6005P**
- Self-levelling coating **VIASOL EP-C500 / EP-C503 / EP-C3005**
- Scratch coat, levelling coating (recommended) **VIASOL EP-C500 / EP-C503 / EP-C3005**
- Primer for cementitious substrates: **VIASOL EP-P203 / EP-T703 or other**
- Substrate: concrete, cementitious screed, and others

SYSTEM*THICKNESS* **2.0 – 5.0 mm**



SYSTEM*HIGHLIGHTS*

- High wear resistance
- Hygienic, complies with regulations of food and beverage industry (ISEGA certified)

APPLICATION*FIELDS*

- Logistic sites and warehouses
- Production areas
- Paper mills and metal working industry
- Workshops
- Shopping centres and supermarkets
- Laboratories

SYSTEM*BENEFITS*

- Wear resistant, capable of bearing medium loads
- Low odor, solvent free, does not taint food
- High abrasion and impact resistance
- Good chemical resistance
- Hygienic, complies with regulations of EU food industry (ISEGA certified)
- Self-leveling, joint less, seam less
- Impermeable to liquids
- Available in many colors
- Good adhesion to concrete and other substrates, with special primers also suitable on substrates with rising water
- Slightly slip resistant surface possible from R9 to R10 for wet areas
- Fire resistance class B_{fl}-S1

Manufacturer:
VIACOR Polymer GmbH, Graf-Bentzel-Str.78, D-72108 Rottenburg, Tel: +49/7472-94999-0, info@viacor.de, www.viacor.de

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APPLICATION *AND* CONSUMPTION

layer	product	consumption (kg/m²)	sand broadcasting (kg/m²)	thickness mm	application
Seal coat, transparent, matt (optional)	VIASOL PU-S6005 (1) If colour flakes used	0.09 – 0.11	none	0.07 – 0.10	microfiber roller
Seal coat, pigmented, matt (optional)	VIASOL PU-S6005P (1)	0.09 – 0.11	none	0.07 – 0.10	
Self-levelling coating	VIASOL EP-C500 or VIASOL EP-C503 (fillable up to 30 % depending on consumption)	1.6 – 2.5	Optional: colour chips	1.2 – 2.0	notched trowel or squeegee (+ spike roller)
Alternative	VIASOL EP-C3005 (fillable 70-150% with VIASOL QNV0)	0.8 – 2.0 + 0.08 – 0.4			
Scratch coat, levelling layer (optional)	VIASOL EP-C500 or VIASOL EP-C503 (fillable 10-20% VIASOL QNV0)	0.8 – 2.0 + 80 – 400	none	0.5 – 2.0	trowel or rubber squeegee / notched trowel or notched squeegee
Alternative	VIASOL EP-C3005 (fillable 70-150% VIASOL QNV0)	0.6 – 1.2 + 0.4 – 1.8			
Primer	VIASOL EP-P203 or VIASOL EP-T703	0.3 – 0.5	optional QS 0.3 – 0.8 mm	0.2 – 0.3	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, residual moisture content < 4 %-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	approx. 70 N/mm²
Flexural strength	EN 196 / ASTM C109	approx. 40 N/mm²
E-Modulus	DIN 53504	approx. 7000 N/mm²
Shore-Hardness	EN ISO 868	D 82 after 28 d
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	≤ 55 mg
Solvent free / Total solid	Test method “Deutsche Bauchemie”	≤ 1 % (not valid for water based seal coat)
Chemical Resistance	EN ISO 2812-1	Test liquids 3, 10, 11 (more see chemical resistance list)
Slip resistance	DIN 51130	R9 – R10
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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