







VIASOL system data sheet

VIASOL **UNIVERSAL high-impact**

Epoxy resin based coating system with glass fabric reinforcement for high hard-wearing and very high mechanical loads with good chemical properties and a wide spectrum of colours and surface structures. Suitable for substrates with cracks and for air cushion vehicles.

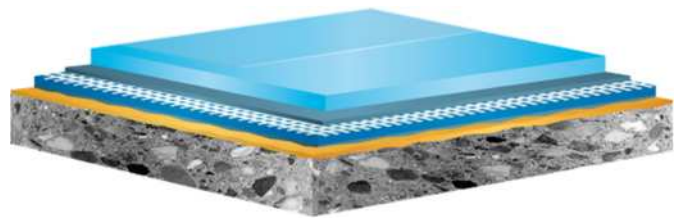
SYSTEM **BUILD-UP**

Optional: Seal coat matt: Transparent if colour flakes are used VIASOL PU-S6005 or pigmented VIASOL PU-S6005P

-  Self-levelling coating
VIASOL EP-C500 / EP-C503 / EP-C3005
-  Fine levelling coating (recommended)
VIASOL EP-C500 / EP-C503 / EP-C3005
-  Intermediate layer with glass fabric:
VIASOL EP-L360
with glass fabric (200 – 450 g/m²)
-  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**

3.0 – 6.0 mm



SYSTEM **HIGHLIGHTS**

- Heavy-duty system
- Reinforcement with glass fabric
- 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**

- Extremely wear resistant
- Capable of bearing medium to heavy loads
- Slightly crack bridging with glass fabric
- 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
- Fire resistance class B_{fl}-s1



Manufacturer:

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APPLICATION AND CONSUMPTION

layer	product	consumption (kg/m ²)	sand broadcasting (kg/m ²)	thickness mm	application
Seal coat, transparent, matt (optional)	VIASOL PU-S6005	0.09 – 0.11	none	0.07 – 0.10	microfiber roller
(Alternative) pigmented	VIASOL PU-S6005P	0.09 – 0.11	none	0.07 – 0.10	microfiber roller
Self-levelling coating	VIASOL EP-C500 / 503 o. VIASOL EP-C3005 (fillable up to 30 % depending on consumption)	1.6 – 2.5	optional colour chips	1.2 – 2.0	notched trowel or squeegee (+ spike roller)
Fine levelling layer (optional)	VIASOL EP-C500 / 503 oder VIASOL EP-C3005	0.8 – 2.0	none	0.5 – 2.0	trowel or rubber squeegee / notched trowel or squeegee
Laminating layer	VIASOL EP-L360 with glass fabric	0.6 – 1.2 (200-450 g/m ²)	none	0.6 – 1.0	trowel or rubber squeegee and laminating roller
Scratch coat, levelling layer (optional)	VIASOL EP-C500 / 503 o. VIASOL EP-C3005 (fillable 10-20% VIASOL QNVO)	0.8 – 2.0 + 80 – 400 QNVO	none	0.5 – 2.0	trowel or rubber squeegee / notched trowel or squeegee
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 $\geq 1.5 \text{ N/mm}^2$, 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	approx. 70 N/mm ²
Flexural strength	EN 196 / ASTM C109	approx. 40 N/mm ²
E-Modulus	DIN 53504	approx. 7000 N/mm ²
Shore-Hardness	EN ISO 868	D 82 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	$\leq 80 \text{ mg}$
Solvent free / Total solid	Test method "Deutsche Bauchemie"	$\leq 1 \text{ \%}$ (not valid for water based seal coat)
Chemical Resistance	EN ISO 2812-1	Test liquids 3, 10, 11 (more see chemical resistance list)
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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