VIASOL system data sheet **GREEN LINE ECO**

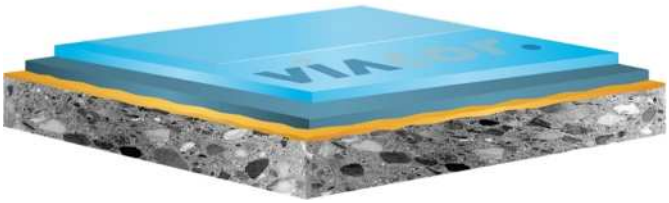
VIASOL*UNIFLEX*

Versatile polyurethane resin based coating system, low emission, with light to medium mechanical and chemical loads, statically crack bridging properties and a wide spectrum of colours and surface structures.

SYSTEM*BUILD-UP*

- Pigmented seal coat: **VIASOL PU-S6005P**
- Self-levelling coating **VIASOL PU-C501 or PU-C4005**
- Pore sealer, levelling coating **VIASOL PU-C501 or PU-C4005** (recommended)
- Primer for cementitious substrates: **VIASOL EP-T703 or EP-P203 or other**
- Substrate: concrete, cementitious screed, asphalt and others

SYSTEM*THICKNESS* **2.0 – 5.0 mm**



SYSTEM*HIGHLIGHTS*

- Low emission accord. to AgBB and other European standards as M1
- TÜV-ProfiCert Premium certified
- Statically crack bridging properties
- Hygienic, complies with regulations of food and beverage industry (ISEGA certified)
- very good UV- and colour stability with pigmented PU seal coat

APPLICATION*FIELDS*

- Logistic sites and warehouses
- Production areas
- Workshops
- Shopping centres and supermarkets
- Laboratories
- Problematic substrates as asphalt (indoor)

SYSTEM*BENEFITS*

- Good wear resistant
- Low emission accord. to AgBB and other European standards as M1
- Capable of bearing light to medium loads
- High abrasion and impact resistance
- Medium chemical resistance
- Hygienic, complies with regulations of EU food industry (ISEGA certified)
- Self-leveling, joint less, seam less
- Impermeable to liquids
- Very good UV- and colour stable with coloured seal coat
- Available in many colors
- Good adhesion to concrete and other substrates, with special primers also suitable on substrates with rising water
- Slip resistant R9 / R10
- Statically crack bridging at 23°C ≤ 0.5 mm
- 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
Seal coat, coloured, matt	VIASOL PU-S6005P	0.09 – 0.13	optional colour chips 2 mm	0.08 – 0.10	roller
Self-levelling coating	VIASOL PU-C501 (fillable up to 30 % depending on consumption)	1.7 – 2.5	none	1.1 – 2.0	notched trowel or squeegee (+ spike roller)
Alternative	VIASOL PU-C4005 (fillable up to 80 % depending on consumption)	1.0 – 1.7 + QNV0 0.75 – 1.4			
Pore sealer, levelling layer (recommended)	VIASOL PU-C501/ VIASOL PU-C4005 (fillable 10-20% VIASOL QNV0)	0.8 – 2.0 + 80 – 400 QNV0	none	0.5 – 2.0	trowel or squeegee / notched trowel or notched squeegee
Primer	VIASOL EP-P203	0.3 – 0.5	QS 0.3 – 0.8 mm 0.5	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. 51 N/mm²
Flexural strength	EN 196 / ASTM C109	approx. 59 N/mm²
Elongation at break	DIN 53504	approx. 10 %
Shore-Hardness	EN ISO 868	D 65 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	≤ 80 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)
Crack bridging	EN 1062-7	class A2 ≤ 0,5 mm
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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