

VIASEAL System data sheet

VIASEAL **WATERPROOF urea-hybrid 21-60**

Fast-curing, spray applied polyurethane-urea waterproofing membrane system, high elastic, with dynamic and statically crack bridging properties (class B4.2 at -20°C) for weathered and covered surfaces. Tested according to DIN EN 1504-2.

SYSTEM **BUILT-UP**

1- or 2-layer top coat, partly fast curing, just for UV loaded areas necessary:

VIASOL PU-S690P, PU-S650 or PU-S6000P

High elastic, spray applied high reactive waterproofing membrane:

VIASEAL UREA-HYBRID 21/60

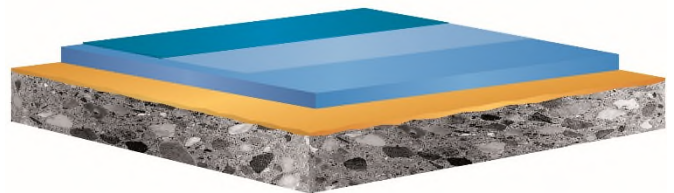
Adhesion promoter **VIASOL PU-P255**

optional: Scratch coat, levelling layer:
VIASOL EP-T703 (S) (if necessary)

Primer for cementitious substrates:
VIASOL EP-P203 (S) or VIASOL EP-T703 (S)

Substrates: Concrete, cementitious screed or other

- **SYSTEM THICKNESS** 2,0 – 3,5 mm



SYSTEM **HIGHLIGHTS**

- Fast curing, high reactive waterproofing coating system
- High dynamic and statically crack bridging > Class B4.2 (-20°C)

APPLICATION **FIELDS**

- Weathered and UV exposed areas
- Rain water retention basin
- Fire water basin and fire water retention basin
- Earth covered concrete ceilings such as tunnel portals & "Cut and Cover" tunnel, podium decks



SYSTEM **BENEFITS**

- Fast- and low temperature curing
- Dynamic and statically crack bridging accord. EN 1062-7 class B4.2 (-20°C)
- Joint- and seamless application on horizontal and vertical surfaces by machine applied membrane
- Root resistant
- High abrasion resistant
- Chemical resistant e.g. oil, petrol, diesel, de-icing salt and other
- Slip resistant for pedestrian traffic with additional aggregates in the seal coat
- Very high UV and weather resistance with aliphatic seal coats

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APPLICATION AND CONSUMPTION

Layer	Product	Consumption (kg/m ²)	Sand broadcasting (kg/m ²)	Thickness mm	Application
Seal coat, UV- and color stable, fast curing	VIASOL PU-S690P	1 – 2-layer 0.2– 0.5	none	0.15 – 0.7	Squeegee, roller for finish
Alternative: Seal coat UV- and color stable	VIASOL PU-S650	1-layer 0.3 – 0.5			
Alternative: Seal coat UV- and color stable	VIASOL PU-S6000P	1 – 2-layer 0.12 – 0.13		0.1 – 0.22	
High elastic, spray applied waterproofing membrane	VIASEAL UREA-HYBRID 21/60 spray membrane	2.1 – 2.4	none	min. 1.8	2-component high pressure spray equipment
Adhesion promoter, (recommended)	VIASOL PU-P255	0.08 – 0.1	none	-	Roller, airless
Scratch coat, levelling (optional)	VIASOL EP-T703 (S) + QS 0.1 – 0.4	0.5 – 1.5 + QS 25–100 %	QS 0.3-0.8 mm In excess	0.5 – 1.5	Notched trowel, roller
Primer, (fast curing)	VIASOL EP-T703 (S) / VIASOL EP-P203 (S)	0.3 – 0.5	QS 0.3-0.8 mm 0.5 – 0.8	ca. 0.3	Squeegee, roller for finish
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/mm ² , 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	Results
Adhesive strength at T _{NORM}	DIN EN 1542	$\geq 3,7$ N/mm ² ($\geq 1,5$ N/mm ²)
Crack bridging properties, dynamic	DIN EN 1062-7	Class B4.2 (-20°C) (> 1,0 mm)
Tensile strength	DIN 53503	≥ 16 N/mm ²
Elongation at break	DIN 53503	> 400 %
Tear strength	DIN ISO 34-1	32,9 N/mm
Abrasion resistance (CS17 Rad)	DIN EN ISO 5470-1	21 mg / 1000 U
CO ₂ – permeability	DIN EN 1062-6	354 mg / 1000 U
Water vapour permeability	DIN EN ISO 7783-1 und -2	Class I 3 m (< 5 m)
Water absorption coefficient	DIN EN 1062-3	< 0,007 kg/m ² x h ^{0,5} (< 0,1)
Root resistance	DIN 4062	No penetration of membrane
Chemical resistance 23°C / 7 d	DIN EN ISO 2812-1	see test report KIWA P9498-E

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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