

VIASEAL WATERPROOF urea-hybrid 21-60

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

Application fields

Weathered and UV exposed areas

Fire water basins and retention basins

Rain water retention basins

“Cut and Cover” tunnel, podium decks

Earth covered concrete ceilings, e.g. tunnel portals

System build-up

VIASOL PU-S6500

SEALER



VIASEAL UREA HYBRID 21/60

WATERPROOFING
MEMBRANE



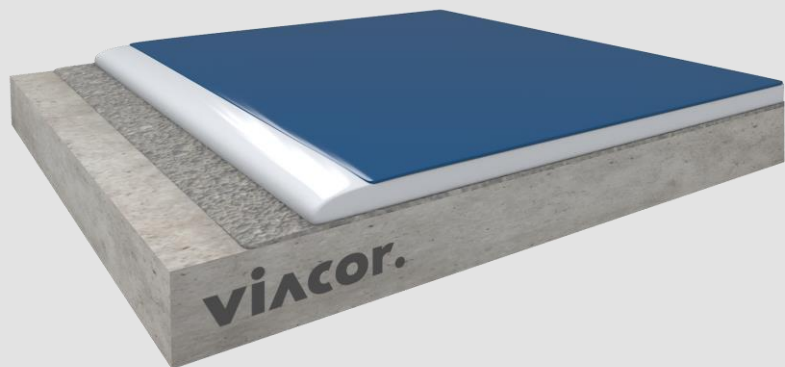
VIASOL PU-P255

ADHESION PROMOTER



VIASOL EP-T703

PRIMER



System highlights

2.0 – 3.5 mm System thickness



Fast and cold
temperature curing



UV resistance with
PU sealer



Chemically resistant,
e.g. against oil, petrol,
diesel, de-icing salt



High abrasion resistance

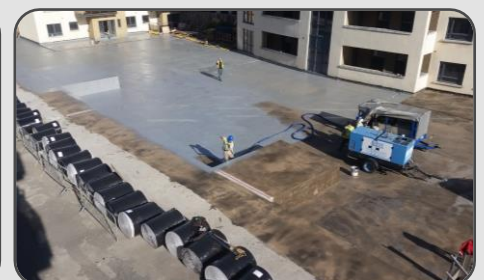


Seamless and jointless



High dynamic crack-
bridging (B4.2, -20°C)

System pictures

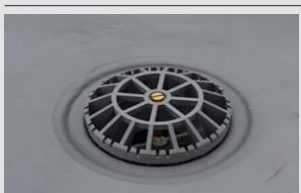


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Application and Consumption

Layer	Product	Consumption (kg/m²)	Sand broadcasting (kg/m²)	Thickness (mm)	Application
Sealer, UV and color stable, coloured	VIASOL PU-S6500	1- layer, 0.3 – 0.5 each	none	0.15 – 0.7	Squeegee, roller for finish
Alternative: Sealer, UV and color stable, coloured, matt	VIASOL PU-S6000 P	1-2 layer, 0.12 – 0.13 each		0.1 – 0.22	
High elastic, spray applied waterproofing membrane	VIASEAL UREA HYBRID 21/60	2.1 – 2.4	none	min. 1.8	2-component high pressure spray equipment
Adhesion promoter (recommended)	VIASOL PU-P255	0.06 – 0.1	none	-	Roller, airless spray
Optional: Scratch coat, levelling layer	VIASOL EP-T703 (SN) + QS (0.1-0.4 mm)	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 SN	0.3 – 0.5	QS (0.3-0.8 mm) 0.5 – 0.8	ca. 0.3	Rubber squeegee, roller
Alternative: Primer	VIASOL EP-T703 VIASOL EP-P1203				
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
	Crack bridging properties, dynamic (-20°C)	DIN EN 1062-7	Class B4.2 (> 1,0 mm)
	Tensile strength	DIN 53503	≥ 16 N/mm ²
	Elongation at break	DIN 53503	> 400 %
	Adhesive strength at T _{NORM}	DIN EN 1542	$\geq 3,7$ N/mm ² ($\geq 1,5$ N/mm ²)
	Tear strength	DIN ISO 34-1	32,9 N/mm
	Abrasion resistance (CS17)	DIN EN ISO 5470-1	21 mg /1000 U
	Abrasion resistance (H22)	DIN EN ISO 5470-1	354 mg / 1000 U
	Water vapour permeability	DIN EN ISO 7783-1 and -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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