

VIASEAL WATERPROOF urea-hybrid 21-60

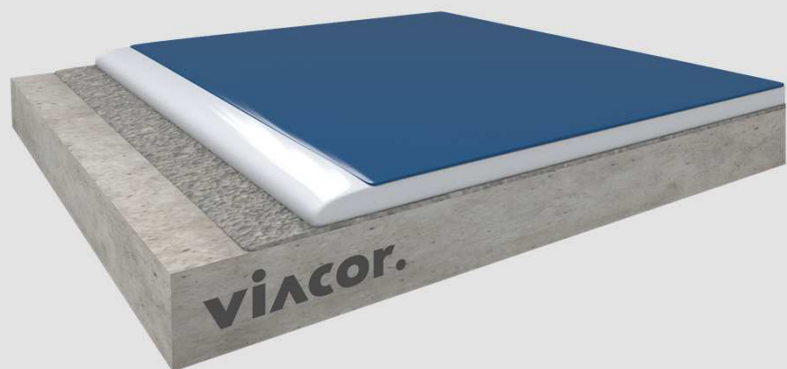
Fast-curing, spray applied polyurethane-polyurea waterproofing membrane system, highly elastic, with dynamic and static crack bridging properties (class B4.2 at -20°C) for weathered surfaces. Tested according to DIN EN 1504-2.

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-S690 P**
 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/m ²)	Sand broadcasting (kg/m ²)	Thickness (mm)	Application
Sealer, UV and color stable, fast curing, coloured	VIASOL PU-S690 P	1-2 layer, 0.2– 0.5 each	none	0.15 – 0.7	Squeegee, roller for finish
Alternative: Sealer, UV and color stable, coloured	VIASOL PU-S650	1-layer, 0.3 – 0.5			
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 (S) + 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 S VIASOL EP-P203 S	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-P203				
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	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

Manufacturer: