

**QUICKSPRAY**

**SUPREME AL (ALIPHATIC - COLOUR FAST)**

**QuickSpray Supreme AL** is an instant curing, spray applied, seamless, and flexible protective membrane.

**QuickSpray Supreme AL** is suitable for use in a wide range of generic applications requiring abrasion, impact waterproofing and chemical resistance with the added feature of colour fastness.

**QuickSpray Supreme AL** is an excellent primary and secondary containment membrane providing seamless, instant curing, flexible containment solutions that require a higher performance level than standard waterproofing membranes.

**QuickSpray Supreme AL** is an ideal lining for public swimming pools, resort lagoons, artificial beaches and marine applications requiring a high performance, colour fast solution.

**USES**

- Resort lagoons and artificial beaches.
- Public swimming pools and water features.
- Colour fast marine applications – bouys, signaling equipment, fenders.
- External tank coatings over insulation – maintenance free.

**FEATURES**

- **Now FDA approval according to 21 CFR § 175.300**
- Aliphatic polyurea technology results in a colour fast high performance protective membrane.
- Can be applied even under extreme climatic conditions. Hot, cold and humid conditions.
- UV and especially color stable
- The A component contains no IPDI
- The MSDS of the Iso component contains no H351 classification
- Very good abrasion, impact and chemical resistance for most applications.
- Resistant to most standard chemicals, acids, oils, and bleaches.\*
- Very good elongation at break.
- Very good tensile strength.
- Seamless application and seamless finish. No welded joints or glued seams.
- Excellent adhesion to concrete, steel, aluminum, plastics, fibers, wood, foam etc.
- Can be applied across multiple substrates in the same application process.
- Remains flexible under a wide range of climatic conditions.
- Rapid application to any thickness and very fast cure results in faster turn around times.
- Can build to any thickness in one application. Does NOT require multiple coats.
- 100% solids, VOC-free, contains zero solvents

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### PROCESSING PROPERTIES

### INFORMATION ABOUT THE USE OF THE PRODUCT

	DATA
Mixing ratio of Comp. A to Comp. B	1 : 1 by volume
Material consumption [kg/m <sup>2</sup> /1mm]	Approx. 1.2
Recommended thickness [mm]	Minimum: 0,5 Maximum: indefinite
Gel time at 20°C [sec.]	10 – 20 (dependent on the temperature of the substrate)
Tack Free-Time at 20°C [min.]	1 -2 (dependent on the ambient and substrate temperatures)
Over coat cycle [h] Check of the adhesion strength after 6 hours waiting time between the application of second on first layer of QSP Supreme AL	0 – 6 (without any pre-treatment) Peel resistance: 2,7 – 3,2 N/mm / separation pattern: CF (cohesion failure in the coating)
Curing/loading after [h]	Walkable: 1 Mechanical: 2 Chemical: 12
Temperature range for application (ambient) [°C]	-10 - +50° C
Temperature range for application (substrate) [°C]	
Material Temperature (Pre-heating) [°C]	25 – 30
Material Temperature (Spraying) [°C]	70 - 80
Maximal relative air humidity for application [%]	98
Pay attention to the dew point limit	min. 3K > DP (dew point)

## PHYSICAL PROPERTIES

## INFORMATION ABOUT THE USE OF THE PRODUCT

	DATA	
Chemical Base	-	Comp. A: Hardener Comp. B: Polymer Mixture
VOC-content	DIN EN ISO 11890-1 / ASTM D-1259	0%
Solids content	DIN EN 827 / A STM D-2697	100%
Colour	-	Varios option ( on request)
Viscosity [mPa*s] @ 25°C	DIN EN ISO 2884-2 / ASTM D-4878	Comp. A: 850 – 1.250 Comp. B: 450 - 850
Density [g/cm <sup>3</sup> ] @ 20°C	DIN EN ISO 2811-1 / ASTM D-1217	Comp. A: 1,11 – 1,15 Comp. B: 0,98 – 1,02
Density [g/cm <sup>3</sup> ]	EN ISO 1183 / ASTM D-792	1,00 ± 0,02
Tensile strength [MPa]	ISO 37 / ASTM D-638	≥ 14
Elongation at break [%]		260 %
Modul [MPa]		100% elongation ≥ 6 300% elongation: ≥ 9
Hardness [Shore A]	ISO 868-2003 / ASTM D-2240	85 ± 5
Hardness [Shore D]		33 ± 5
Rebound resilience [%]	ISO 4662 / ASTM 7121	≥ 24
Tear growth resistance [N/mm]	ISO 34-1 method A	≥ 17
Volume abrasion [mm <sup>3</sup> ]	DIN ISO 4649	no datas available
Taber Abrasion [mg]	ASTM D-4060	nb (Wheel CS17 / 1.000g / 1000 Cycles) nb (Wheel H18 / 1.000g / 1000 Cycles)
Pendulum test (sliding resistance)	BS 7976-1-2002 + A1-2013	Average PTV (pendulum test value) with slider 96 Dry: 80 Wet: 70
FDA approval	21 CFR § 175.300	passed
Peel off strength [N/mm]	ISO 813 / ASTM 903	Concrete: ≥ 4 Steel: ≥ 8
Pull off strength [N/mm <sup>2</sup> ]	DIN EN ISO 4624 / ASTM D-4541	Concrete: ≥ 1,5 Steel: ≥ 6

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	DATA	
Max. Process temp. [°C]	ISO 11346 / ASTM D-2485	Wet: 45 Dry: 80 Peak temperature dry: 100
Min. Process temp. [°C]		-40
Color fastness and weathering ( against artificial light & high temperatures )	DIN EN ISO 105-B06 : 2004-07	Conditions 460 hrs. at 100°C Gloss, before: 53,5 , after: 52,3 Loss : -2 Colour factor DE, before: 6,62 after 13,1
Heat Conductivity [W/m*K]	-	0,245
Surface resistance [Ohm]	DIN IEC 60167	$\geq 1,5 \cdot 10^{11}$
Volume resistance [Ohm]	DIN IEC 60093	$\geq 1,5 \cdot 10^{11}$
Storage conditions [°C]	DIN EN 12701	10 – 30 (in closed original drums, stored at dry and well ventilated place; beware of freezing)
Shelf life	-	Approximately 12 months

\*) All data measured at 77°F @ 50%rH. Meanderings at different ambience- and processing parameters have to be taken into account

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**APPLICATION NOTES**

It is important that the B-side resin drum is thoroughly power stirred prior to every use. Add colour pigments to the B-side resin drum only. The drying times depend naturally on the climate and environmental influences, e.g. ambient temperature, relative humidity of air and ventilation etc. Therefore the times specified can only be used as guidelines. The exact times have to be determined by testing on site.

**FORM OF DELIVERY**

**Please see our price list for respective packaging units.**

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own investigations and testing, the suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. These products require specialized equipment and skills to apply. It is the purchaser's responsibility to ensure that they have the necessary equipment, skills and experience to apply these products. Neither seller nor

manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Technical and application information is provided for the purpose of establishing a general profile of the material and application parameters. Test performance results were obtained in a controlled environment and VIP makes no claim that these tests or any other tests can be accurately reproduced in all environments. The rights of the purchaser regarding the quality of our materials follows completely our general terms and conditions. For requirements, which exceed the scope of the above mentioned applications please contact VIP technical staff.

VIP reserves the right to change or modify the details and data contained herein at any time. Valid is only the actual version of this technical data sheet in each case.

Also include the following just below all the test data boxes.  
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**ISSUE DATE: FEBRUARY 2020**

This technical specification supersedes all previous data sheets.

\* VIP recommends that in all applications involving chemicals a pre-test of the linings suitability in the customer's application is conducted. Consult with VIP Technical Team.