TECHNICAL DATA SHEET

QUICKSPRAY SUPREME INDUSTRIAL SOFT

DESCRIPTION

QuickSpray Industrial Soft is designed to provide all the usual advantages of a VIP spray applied instant curing membranes with the added feature of being softer after full cure. This soft feature is ideal for applications where impact wear is an issue or applications where the softness of the finished membrane provides additional safety benefits – such as childrens play grounds, animal enclosures, swimming pool copings etc.

QuickSpray Industrial Soft displays excellent flexibility, elongation and re-bound resilience.

TYPICAL USES

- Industrial & manufacturing equipment subject to impact wear Noise reduction applications in industry
- Animal enclosures and animal transport vehicles
- Recreation areas, play ground equipment, theme parks
- Water parks, childrens play ponds Mold creation
- Out door furniture coatings

FEATURES

- All the features of VIP`s standard spray applied instant curing membranes Extremly high rebound resilience, much lower wear rates from impact Fast reactivity and cure times.
- Fast return to service time, long life-cycle = significant savings
- Excellent corrision protection, waterproofing
- Excellent adhesion on concrete, steel, aluminum, plastics, fiberglass, wood, foam etc. Resistant to most aggressive chemicals, solvents, acids and caustics
- Seamless and joint-less coating and lining, solid, high application thickness possible High impact & abrasion resistance, maintains flexibility
- Extremely high rebound resilience provides improved performance against impact wear. High elongation at break
- Very good tensile and structural strength
- 100% solids, VOC-free, no solvents
- Weather-proof and saltwater resistant
- Excellent stability over a wide temperature spectrum

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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/m²/1mm]	Approx. 1 - 1.2
Recommended thickness [mm]	Minimum: 1 – Maximum: unlimited
Gel time at 20°C [sec.]	5 - 15 (dependent on the temperature of the substrate)
Tack Free-Time at 20°C [sec.]	15 - 30 (dependent on the temperature of the ambient)
Over coat cycle [h]	0 – 12 (without any pre-treatment)
Curing/loading after [h]	Walkable: 1 Mechanical: 2 Chemical: 12 - 24
Temperature range for application (ambient) [°C]	-10 - +50
Temperature range for application (substrate) [°C]	
Material Temperature (Preconditioning) [°C]	25 - 30
Material Temperature (Spraying) [°C]	60 - 70
Maximal relative air humidity for application [%]	80 - 85
Pay attention to the dew point limit	Min. substrate temp 3K > DP (dew point)

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PHYSICAL PROPERTIES

INFORMATION ABOUT THE USE OF THE PRODUCT

	DATA	
Chemical Base	–	Comp. A: MDI-Prepolymer Comp. B: Polyetheramine-Mixture
VOC-content	DIN EN ISO 11890-1 / ASTM D-1259	0%
Solids content	DIN EN 827 / ASTM D-2697	100%
Colour	–	Straw / brownish – supplied un-pigmented
Viscosity [mPa*s] @ 25° C	DIN EN ISO 2884-2 / ASTM D-4878	Comp. A: 1.500 – 1.900 Comp B: 1.100 – 1.800
Density [g/cm3] @ 20° C	DIN EN ISO 2811-2 / ASTM D-1217	Comp. A: 1,11 – 1,15 Comp. B: 0,99 – 1,03
Density [g/cm3]	EN ISO 1183 / ASTM D-792	0,98 ± 0,02
Tensile strength [MPa]	ISO 37-2005 / ASTM D-638	≥ 5
Modul [MPa]	ISO 37-2005 / ASTM D-638	100% Elongation: ≥ 3,0 300% Elongation: ≥ 4,5
Elongation at break [%]	ISO 37-2005 / ASTM D-638	≥ 500
Hardness [Shore A]	ISO 868-2003 / ASTM D-2240	65 ± 5
Rebound resilience [%]	ISO 4662 / ASTM D-7121	≥ 58
Tear growth resistance[N/mm]	ISO 34-1 method A	≥ 8
Volume abrasion [mm3]	DIN ISO 4649	≤ 200
Taber Abrasion [mg]	ASTM D-4060	< 15 (Wheel CS17 / 1.000g / 1000 Cycles) < 125 (Wheel H18 / 1.000g / 1000 Cycles)

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PHYSICAL PROPERTIES

INFORMATION ABOUT THE USE OF THE PRODUCT

	DATA	
Peel off strength [N/mm]	ISO 813 / ASTM D-903	Concrete: ⩾ 4 Steel: ⩾ 8
Resistance to Root Penetration	EN 14416	Yes (approval)
Max. Process temp. [°C]	ISO 11346 / ASTM D-2485	Wet: 50 Dry: 110 Peak temperature dry: 130
Crack bridging abilities [mm] (thickness of the sample 2-3 mm)	DIN EN 1062-7 Procedure C.2	+23°C: > 15,5
Surface resistance [Ohm]	DIN IEC 60167	⩾ $1,0*10^9$
Volume resistance [Ohm]	DIN IEC 60093	
Storage conditions [°C]	DIN EN 12701	10 – 30 (in closed original drums, stored at dry and well ventila- ted place; beware of freezing)
Shelf life	–	Approximately 12 months

*** 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**

*) All data measured at 23°C @ 50%rH. Meanderings at different ambience- and processing parameters have to be taken into account.

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APPLICATION NOTES

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.

Aromatic Polyurea Coating Systems are UV-stable but are not color stable. The cured coating system may exhibit discoloration when exposed to sunlight.

FORM OF DELIVERY

Please see our price list for respective packaging units.

DISCLAIMER

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 information and testing, to determine 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 neces- sary 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.

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This technical specification supersedes all previous data sheets.

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