

QUICKSPRAY

INDUSTRIAL W (POTABLE WATER APPROVED)

1. DESCRIPTION

QuickSpray Industrial W is an instant curing, spray applied, seamless, and flexible protective membrane that exhibits excellent impact and tear strength. It will not crack, peel or splinter even under the harshest conditions and requires no maintenance to maintain it's integrity and physical features.

QuickSpray Industrial W is a specially formulated cheaper alternative to **QuickSpray Supreme W** and is designed for use in potable water applications up to ambient temperatures.

QuickSpray Industrial W has various potable water approvals limited to applications between 23C and 40C.

2. FEATURES

- ✓ Potable Water Approval
- ✓ Spray applied Seamless application to any thickness in one application.
- ✓ Fast reactivity and tack free times - from 5 seconds.
- ✓ Fast return to service time – within 48 hours.
- ✓ Long life-cycle - significant whole of life cycle savings
- ✓ Excellent adhesion on concrete, steel, aluminum, fibeglass, wood, foam etc.
- ✓ No sensitivity to humidity or moisture during the spraying and curing processes.
- ✓ High impact and abrasion resistance,
- ✓ Maintains flexibility and does not become brittle over a wide temperature range.
- ✓ Very good tensile and structural strength - High elongation at break.
- ✓ 100% solids, VOC-free, no solvents
- ✓ Without the use of catalysts
- ✓ UV, chlorine and saltwater resistant.

3. TYPICAL USES

- Potable water reservoirs, storage tanks, canals and via-ducts.
- Rain water storage tanks.
- Fish breeding tanks.
- De-salination plants.
- Water bottling and cleaning plants

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4. PROCESSING PROPERTIES	DATA
Mixing ratio of Comp. A to Comp. B	1 : 1 by volume
Material consumption [kg/m ² /1mm]	Approx. 1 - 1.2
Recommended thickness [mm]	Minimum: 1 Maximum: indefinite
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
Temperature range for application (ambient) [°C]	-10 - +50
Temperature range for application (substrate) [°C]	-10 - +50
Material Temperature (Preconditioning) [°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)

5. PHYSICAL PROPERTIES	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	- miscellaneous (on request)
Viscosity [mPa*s] @ 25° C	DIN EN ISO 2884-2 / ASTM D-4878 Comp. A: 300 – 900 Comp B: 350 – 700
Density [g/cm ³] @ 20° C	DIN EN ISO 2811-2 / ASTM D-1217 Comp. A: 1,11 ± 0,02 Comp. B: 0,98 ± 0,02
Density [g/cm ³]	EN ISO 1183 / ASTM D-792 1,02 ± 0,02
Tensile strength [MPa]	ISO 37-2005 / ASTM D-638 ≥ 24
Modul [MPa]	IISO 37-2005 / ASTM D-638 100% Elongation: ≥ 10 300% Elongation: ≥ 15

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5. PHYSICAL PROPERTIES	DATA	
Elongation at break [%]	ISO 37-2005 / ASTM D-638	≥ 410
Hardness [Shore D]	ISO 868-2003 / ASTM D-2240	45 ± 5
Rebound resilience [%]	ISO 4662 / ASTM	≥ 39
Tear growth resistance[N/mm]	ISO 34-1 method A	≥ 40
Volume abrasion [mm ³]	DIN ISO 4649	≤ 185
Taber Abrasion [mg]	ASTM D-4060	< 15 (Wheel CS17 / 1.000g / 1000 Cycles) < 135 (Wheel H18 / 1.000g / 1000 Cycles)
Peel off strength [N/mm]	ISO 813 / ASTM	Concrete: ≥ 4 Steel: ≥ 8
Pull off strength [MPa]	DIN EN ISO 4624 / ASTM D-4541	Concrete: ≥ 1,5 Steel: ≥ 6
Min. Process temp. [°C]	ASTM D-2485	Dry: -40
Max. Process temp. [°C]	ASTM D-2485	Wet: 60 Dry: 130 Peak temperature dry: 150
Sound absorption at 2 mm	-	> 10 dB (A)
Potable water approval	BS 6920	WRAS (UK) up to 23°C
Potable water approval	SI 5452	Standard Institution (IL) up to 40°C
Surface resistance [Ohm]	DIN IEC 60167	≥ 1,0*10 ¹¹
Volume resistance [Ohm]	DIN IEC 60093	≥ 1,0*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
Antibacaterial Activity	BS ISO 22196	2,2 : Result „good“ (99,0-99,9%) – (Bacteria:S.aureus) 2,4 : Result „good“ (99,0-99,9%) – (Bacteria:E.coli)

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

*** 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**

6. APPLICATION NOTES

QuickSpray Industrial W must be applied using heated high pressure plural component spray equipment by an experienced applicator.

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 colour stable. The cured coating system may exhibit discoloration when exposed to sunlight. This does not influence the physical properties of the material!

Special note for the application of potable water tanks, reservoirs and similar constructions:

After the finalization of the application of QuickSpray Industrial W a waiting time of 24 hours should be taken into account. As next step an intensive thoroughly washing and rinsing of the tank with warm water (50-60°C) is indicated and then this water can be removed. At least an additional waiting time of approx. 48 hours should be taken into account prior to filling the tank with fresh potable water

7. 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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