TECHNICAL DATA SHEET

QUICKSPRAY

INDUSTRIAL SLOW
- RETARDED GEL TIME
- FOR APPLY WITH HP & LP MACHINES

1. DESCRIPTION

QuickSpray Industrial S (Slow) is a high performace elastomeric protective coating with a retarded gel time resulting in a smoother finished surface profile. The retarded gel time allows the product to self level more than the standard QuickSpray Industrial coating for applications where a smoother finish is important.

QuickSpray Industrial Slow is specially formulated and designed for different options of application techniques, which allows to apply this material by plural component hot spray high pressure or with cold spray low pressure machines like VIP`s LP-2. So therefore the operator can select the adequate application technique for the specific job and project size.

2. FEATURES

- ✓ Formulated using 100% Pure Polyurea technology resulting in a product that can be applied under extreme environmental conditions.
- ✓ Retarded reactivity results in a longer tack free time and a smoother surface profile.
- ✓ Self levelling properties - high class optical impression even on geometrically complicated shapes.
- ✓ Retarded working time of approximately 25 – 45 seconds
- ✓ Fast return to service time.
- ✓ Excellent protection against corrosion and water.
- ✓ Excellent adhesion on concrete, steel, aluminum, plastics, fibers, wood, foam etc.
- ✓ Mositure insensitive during the spraying and curing processes.
- ✓ Resistant to most aggressive chemicals, solvents, acids and caustics
- ✓ Seamless lining.
- ✓ Can be applied to any thickness in one application
- ✓ High elongation at break
- ✓ Very good tensile and structural strength
- ✓ 100% solids, VOC-free, no solvents
- ✓ Thermally stable.

VIP Coatings International GmbH & Co. KG
www.vipcoatings-intl.com

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3. TYPICAL USES

- ✓ Coating of EPS carvings and structures for movies and architectural applications.
- ✓ Molds for fabrication of large components such as concrete forms.
- ✓ High quality protective coating of PU furniture.
- ✓ Smooth finish flooring applications.
- ✓ Animal enclosures – Zoos and parks,
- ✓ Industrial floors, access ramps, service lift floors
- ✓ Secondary containment linings
- ✓ Waste water tank linings

4. PROCESSING PROPERTIES	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: 1,0 Maximum: indefinite
Gel time at 20°C [sec.]	25 – 35 (LP-2: 30 – 45) (dependent on the temperature of the substrate)
Tack Free-Time at 20°C [sec.]	30 – 60 (LP-2: 120 – 180) (dependent on the ambient and substrate temperatures)
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 - 75
Maximal relative air humidity for application [%]	98
Pay attention to the dew point limit	min. 3K > DP (dew point)

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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	-	miscellenous (on request)
Viscosity [mPa*s] @ 25° C	DIN EN ISO 2884-2 / ASTM D-4878	Comp. A: 300 – 700 Comp. B: 300 – 700
Density [g/cm³] @ 20° C	DIN EN ISO 2811-2 / ASTM D-1217	Comp. A: 1,09 – 1,13 Comp. B: 1,01 – 1,05
Density [g/cm³]	EN ISO 1183 / ASTM D-792	1,00 ± 0,02
Tensile strength [MPa]	ISO 37-2005 / ASTM D-638	⩾ 18 (LP-2: ⩾ 16)
Modul [MPa]	IISO 37-2005 / ASTM D-638	100% Elongation: ⩾ 10 (LP-2: ⩾ 8) 300% Elongation: ⩾ 15 (LP-2: ⩾ 11)
Elongation at break [%]	ISO 37-2005 / ASTM D-638	⩾ 400 (LP-2: ⩾ 350)
Hardness [Shore D]	ISO 868-2003 / ASTM D-2240	45 ± 5 (LP-2: 40 ± 5)
Rebound resilience [%]	ISO 4662 / ASTM	⩾ 32 (LP-2: ⩾ 29)
Tear growth resistance[N/mm]	ISO 34-1 method A	⩾ 39 (LP-2: ⩾ 35)
Volume abrasion [mm³]	DIN ISO 4649	⩽ 150
Taber Abrasion [mg]	ASTM D-4060	< 10 (Wheel CS17 / 1.000g / 1000 Cycles) (LP-2: < 13) < 70 (Wheel H18 / 1.000g / 1000 Cycles) (LP-2: < 100)
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
Max. Process temp. [°C]	ASTM D-2485	Wet: 60 Dry: 130 Peak temperature dry: 150
Sound absorption at 2 mm	-	> 10 dB (A)
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

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6. APPLICATION NOTES

QuickSpray Industrial Slow 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!

7. FORM OF DELIVERY

Please see our price list for respective packaging units.

Also include the following just below all the test data boxes.

* 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.

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