

QUICKSPRAY XPRESS STANDARD

CARTRIDGE SPRAY SYSTEM

DESCRIPTION

QuickSpray Xpress Standard is a very fast set, premium, 2-component 100% solids coating/elastomer derived from a reaction of an Isocyanate Pre-Polymer and an Amine terminated resin blend. This elastomeric coating system has been especially designed to protect and coat most surfaces assuring pore density. It is relatively insensitive to moisture and temperatures. The product reacts within seconds and once cured, leaves a flexible, durable, tough surface. It is extremely effective when used as a protective coating whether applied over concrete, steel, any other surface or as a substrate on earth or on Geotextile fabric.

The double cartridge material (available in 1500ml, 1:1 cartridges) is a specially formulated system for repair and maintenance operations on coated surfaces as well as for smaller applications (< 20m²). It can be applied easily utilizing a standard 1500ml pneumatic dispensing gun with a spray adapter in connection with a compressor that can guarantee 6-8 bar constant pressure with an air volume production of at least 240 l/min.

FEATURES

- For small and quick applications & repairs
- Fast, mobile unit, immediate use, no electricity
- Extremely fast reactivity, seamless and joint less coating and lining
- Curing without catalysts
- 100% solids, no solvents, VOC-free, no odor,
- Resistant to most chemicals, solvents, acids and caustics
- Excellent corrosion protection, low permeability
- saltwater resistant, good outdoor weathering, UV- resistant
- High impact & abrasion resistance, will not crack or check, crack bridging, maintains flexibility Thermal stability, low temperature flexibility, takes high radiant heat
- Excellent tensile and structural strength, high elongation at break
- Very good adhesion to concrete, steel, Aluminum, plastics, fiberglass, wood, foams etc.
- Almost immediate return to service time

TYPICAL USES

- Repair of existing coatings
- Small applications up to 20m²
- Load areas on vehicles, (inside & outside) Loading ramps, hoisting platforms
- Truck-bed lining and -flooring
- Tank and container lining (inside and outside) Molds and modeling, prototyping
- Structural Protection for wear and tear parts Vibration stoker
- Underbody coating, stone chip protection Corner protection and overhaul

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PROCESSING PROPERTIES

	DATA
Mixing ratio of Comp. A to Comp. B	100 : 100 per volume
Material consumption [kg/m ² /1mm]	Approx. 1,2 kg
Recommended thickness [mm]	Min: 1,5 Max: unbegrenzt
Gel time at 20°C [sec.]	60 (abhängig von der Substrattemperatur)
Tack Free-Time at 20°C [sec.]	5 – 6 (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 - 40, optimum 15 - 30
Temperature range for application (substrate) [°C]	10 - 40
Material Temperature (Preconditioning) [°C]	20 – 30
Material Temperature (Spraying) [°C]	25 - 30
Maximal relative air humidity for application [%]	98
Pay attention to the dew point and substrate temp.	min. 3K > DP (dew point)

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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 - 700 Comp. B: 300 - 700
Density [g/cm ³] @ 20°C	DIN EN ISO 2811-1 / ASTM D-1217	Comp. A: 1,09 – 1,13 Comp. B: 1,02 – 1,06
Density [g/cm ³]	EN ISO 1183 / ASTM D-792	0,95 ± 0,02
Tensile strength [MPa]	ISO 37-2005 / ASTM D-638	≥ 15
Modul [MPa]		100% Dehnung: ≥ 8 300% Dehnung: ≥ 12
Elongation at break [%]		370
Hardness [Shore D]	ISO 868-2003 / ASTM D-2240	45 ± 5
Rebound resilience [%]	ISO 4662 / ASTM	≥ 27

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PHYSICAL PROPERTIES

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Tear growth resistance [N/mm]	ISO 34-1 method A	≥ 35
Volume abrasion [mm ³]	DIN ISO 4649	≤ 250
Taber Abrasion [mg]	ASTM D-4060	< 11 (Wheel CS17 / 1.000g / 1000 Cycles) < 50 (Wheel H18 / 1.000g / 1000 Cycles)
Peel off strength [N/mm]	ISO 813 / ASTM	Concrete: ≥ 4 Steel: ≥ 8
Pull off strength [N/mm ²]	DIN EN ISO 4624 / ASTM D-4541	Concrete: ≥ 1,5 Steel: ≥ 6
Max. Process temp. [°C]	ISO 11346 / ASTM D-2485	Wet: 60 Dry: 130 Peak temperature dry: 150
Heat Conductivity [W/m*K]	-	0,245
Sound absorption	-	> 10 dB (A)
Surface resistance [Ohm]	DIN IEC 60167	≥ 1,0*10 ¹¹
Volume resistance [Ohm]	DIN IEC 60093 / ASTM D - 257	≥ 1,0*10 ¹¹
Storage conditions [°C]	DIN EN 12701	10 – 30 (in closed original drums, stored at dry and well ventila- ted place; beware of freezing) IMPORTANT NOTE: Store the Cartridges in horizontal position
Shelf life	-	Approximately 9 months

*) Alle Messungen bei 23°C @ 50%rF. Abweichungen bei unterschiedlichen Umgebungs- und Verarbeitungsparametern beachten.

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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. This does not influence the physical properties of the material!

For the best physical and surface finish characteristics it is important that the cartridges are thoroughly shaken and pre-heated to 40 – 50 degrees C prior to being used.

For additional information on cartridge application ask for our video and instruction manual.

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 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.

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