PolySpray

A low temperature cured lining system for vessels, structures, masonry and pipes that require structural enhancement and flexibility.

The PolySpray Lining System is a 100% solids spray applied aromatic structural polyurea lining system that has extraordinary toughness and flexibility. In addition, it can be applied in thicknesses from 20 to 500 mils (0.5 to 15 mm) or greater in multiple passes per application and returned to service in several hours.



Fast recommissioning time at minimum cure temperature of 20°F (-7°C).

No VOCs and low odor

Fully trained application specialists.

Compatible with a variety of substrates.

Seamless, flexible and waterproof

Full contract support services, if required.

Designed and manufactured in an ISO 9001 accredited facility.

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	ava
Mix Ratio	1:1
Pot Life 68°F (20°C)	No
Drying Times 37°F (3°C)	To
	Ge

Wet Film Thickness Dry Film Thickness % Volume Solids Theoretical Coverage

Flash Point Storage Life Beige, Semi Gloss; other colors available 1:1 None Touch - 30 Seconds Gel Time - 3 Seconds Useable - 3 Minutes 20 - 500 mils (0.5 - 15 mm) 20 - 500 mils (0.5 - 15 mm) 100 16 mils/1gal/1ft² (1 mm/1 liter/1 m²) Above 212°F (100° C) Twelve months when stored

in original sealed containers, between 50-77° F (10-25° C)

SUGGESTED USE

Designed for use in immersion exposure as a seamless waterproof liner for large diameter pipe and tanks conveying process water, fresh and salt water. Ideally suited for use in facilities used for the handling, transport and storage of process water and abrasive slurries to include:

Steel Water Tanks Concrete Water Tanks Secondary Containments Concrete Reservoirs Industrial Piping Storm Drains Sanitary Sewer Piping Natural Gas Cooling Water Piping Power Plants Manholes Building & Bridge Structures Brine Tanks

INSTALLATION ADVANTAGES OF POLYUREA

Snap Cure 3-8 Seconds

Can be sprayed on a slope or vertical up to 275 mils (7 mm) with no sags or runs

Foot traffic can resume within minutes on horizontal surfaces Outstanding corrosion resistances increased structural strength

POLYSPRAY LINING SYSTEM

Atmospheric	Conditions	During	Applications
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Polyurea is relatively insensitive to:

- Moisture
- Temperature

Weather Variations

- High humidity
- High temperatures
- Low temperatures

Little Effect On Adhesion

- If the substrate is clean and profiled
- No wet-frozen flash rust or other contaminates on substrate

Surface Conditions

Surface must be clean, dry and in sound condition. Remove all oil, dust, grease, dirt, loose rust and other foreign material to ensure adequate adhesion

Minimum recommended surface preparation:

Steel:

Atmospheric:	SSPC-SP10/NACE 2, 2 mil profile
Immersion:	SSPC-SP10/NACE 2, 3 mil profile

Concrete & Masonry:

Sandblast or shot blast to remove all laitance and achieve a profile equal to 80-100 grit sandpaper. Refer to SSPC SP13/ NACE 6 or ICRI Guide 03732.

Application Conditions:

Temperature Material Air & Surface Relative Humidity Surface must be dry

150° F minimum to 175° F maximum -20° F Minimum to 120° F maximum 80 percent

Hardness ASTM D2240 Shore D 60 **Abrasion Resistance** Method: ASTM D4060 CS17 Result:1000g 500 cycles 6.3 mg loss 1000g 1000 cycles 19 mg loss **Tensile Strength** Method: ASTM D638 Result: (PSI) 3291 Elongation at Yield (%) 403 Tensile Modulus 100% Modulus (PSI) 1659 300% Modulus (PSI) 2775 Young's Modulus (PSI) 18531 **Flexural Modulus (PSI)** ASTM D790 48,000 **Adhesion Testing** ASTM D4541 Coating to Concrete 500 (concrete failed) Bond Strength (PSI) Coating to Metal 1750 Bond Strength (PSI) Coating to Wood 500 (wood failed) Bond Strength (PSI) Water Absorption ASTM D570 (%) 1.52 **Tear Resistance** ASTM D1004 (Lbs Force) 59.35



UNITED STATES 1210 Glendale-Milford Road Cincinnati, OH 45215 Ph: 888.538.6030 Fax: 513.771.2333

UNITED STATES

860 Prospect Hill Road Windsor, CT 06095 Ph: 860.925.6871 Fax: 860.925.6872

UNITED KINGDOM

Derby Road Widnes, Cheshire WA8 9ND Ph: +44 (0) 151 495 3505 Fax: +44 (0) 151 495 3522

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