

PARSONPOXY SEL 80

QUICK SPRAY, CORROSION RESISTANT EPOXY COATING

DESCRIPTION: ParsonPoxey SEL 80 is a quick spray, 100% solids, high-build epoxy coating formulated to provide long-term corrosion protection and structural enhancement for manholes, pump stations, treatment plants or any wastewater infrastructure subject to high levels of corrosion and/or abrasion. ParsonPoxey SEL 80 sets fast for a quick return-to-service in the most aggressive and turbulent environments. It finishes smooth to enhance flow and is utilized as an interior or exterior pipe lining.

PHYSICAL PROPERTIES:

Tensile Strength	ASTM D638	4,611 psi 31.8 MPa
Tensile Elongation	ASTM D638	2.9%
Flexural Strength	ASTM D790	9,423 psi 65 MPa
Flexural Modulus	ASTM D790	772.49 ksi 5,326 MPa
Compressive Strength	ASTM D695	14,500 psi 100 MPa
Adhesion to Concrete	ASTM D4541	>2,000 psi 13.8 MPa (substrate failure)
Adhesion to Blasted Steel	ASTM D4541	>3,000 psi 20.7 MPa

TYPICAL COATING REQUIREMENTS: With ParsonPoxey SEL 80, only 1 coat is needed to attain finished thickness. If additional coats are called for they must be applied before the previous coat has completely cross-linked, typically for 12 hours @ 72°F (higher temperatures/humidity will shorten this window). If re-coating is needed, brush blast before applying the next coat. Before re-coating, clean and dry surface thoroughly to remove all contamination, including amine blush or condensation. Small areas may be abraded by sanding or wire brushing. The same requirements apply when overlapping seams of adjacent coating sections to create a continuous protective film. If the coating surface to be overlapped at the seam cannot be brush blasted, use a non-impact means, such as power brushing or sanding, to create adequate mechanical profile.

SURFACE PREPARATION: Coating performance is largely determined by the degree of surface preparation. MORE IS BETTER.

EXISTING CONCRETE AND MASONRY substrates must be prepared in a manner that provides a uniform, sound, clean, neutralized surface with sufficient profile suitable for the specified coating. The substrate must be free of all contaminants, such as oil, grease, rust, scale or deposits and have a surface profile equivalent to a CSP3 to CSP5 in accordance with ICRI Technical Guideline No. 03732. This can generally be achieved by abrasive blasting, shot blasting, high pressure water cleaning, water jetting, acid etch, hot water/steam cleaning or a combination of methods.

NEW CONCRETE AND MASONRY SUBSTRATES must be profiled, to achieve a CSP4.

STEEL surfaces may require "Solvent Cleaning" (SSPC-SP 1) to remove oil, grease and other soluble contaminants. Chemical contaminants may be removed according to SSPCSP 12/NACE No. 5. Identification of the contaminants, along with their concentrations, may be obtained from laboratory and field tests as described in SSPC-TU 4 "Field Methods for Retrieval and Analysis of Soluble Salts on Substrates". Surfaces to be coated should then be prepared according to SSPC-SP 5/NACE No.1 "White Blast Cleaning" for immersion service or SSPC-SP 10/NACE No. 2. "Near White Blast Cleaning" for all other service. In certain situations, an alternate procedure may be to used such as high (>5,000 psi) or ultrahigh (>10,000 psi) pressure water cleaning or water cleaning with sand injection. The resulting anchor profile shall be 2.5-5.0 mils and be relative to the coating thickness specified.



FEATURES AND BENEFITS

- 100% Solids, No VOCs
- Spray applied at 80 to 125 mils in a single pass
- Excellent corrosion and abrasion resistance

TYPICAL PERFORMANCE CHARACTERISTICS

- Color: White
- Finish: Very Smooth (Manning Coefficient: .009)
- Flash Point > 250°F (121°C)
- Ratio: 3A to 1B by volume

APPLICATION SYSTEMS

Single Component 70:1 Airless Spray Units

PARSONPOXY SEL 80

CORROSION RESISTANT EPOXY PROTECTIVE COATING

CURE TIME

- 70°F | 21°C
- Re-coat Window — 12 hours
- Immersion (Aqueous) Service — 8 hours
- Initial cure time 12 hours
- Full cure time 24 hours
- Can be applied to Parson MH Liner after 24 hours to perform as a composite system

POT LIFE: 80°F (27°C) 40 minutes

PACKAGING: ParsonPoxyl SEL 80 is available in 4 Gallon Kits (3 parts A, 1 part B).

MATERIAL COMPATIBILITY: ParsonPoxyl SEL 80 can be used in a composite system with Parson Mortar Materials.

YIELD: ParsonPoxyl SEL 80 will yield theoretical coverage of 20 sq. ft per gallon @ 80 mils thickness. Actual surface coverage will depend on substrate porosity and roughness. A wet film thickness gauge may be used to determine actual coating thickness.

WARRANTY: Parson Environmental warrants its products to be free of defects in material and workmanship. Within one year from purchase, if any Parson Environmental product is proven defective, the company will replace said product or refund its purchase price at its sole discretion. The company's obligation shall be limited solely to such replacement or refund. There are no other warranties by Parson Environmental, expressed or implied. There is no warranty if Parson Environmental products are used contrary to Parson Environmental's written directions.



CHEMICAL RESISTANCE

- Acetic Acid (10%)
- Bleach
- Butyl Cellosolve
- Deionized Water
- Ethanol
- Hydrogen Sulfide (H₂S)
- Lactic Acid (10%)
- MEK
- Methanol
- Nitric Acid (10%)
- Nitric Acid (30%)
- Sulfuric Acid (20%)
- Sodium Hydroxide (50%)
- Toluene
- Trichloroethane (1,1,1)
- Xylene

*Resistance of Plastics to ASTM D543
Completed Chemical Reagents (listed in ASTM
F1216)*



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