

SELECTION & SPECIFICATION DATA

Type	Polyamide Epoxy
Description	ResSeal is a high-performance and self-leveling 2-part epoxy based sealant and coating. ResSeal is formulated for rust prevention and corrosion control. ResSeal quickly seals and repairs leaks, while also restoring corroded surfaces all with minimal downtime. ResSeal cures underwater and forms a tight bond to many surfaces including concrete, stainless steel, metal, fiberglass and wood.
Features	<ul style="list-style-type: none"> • 100% solids, VOC Free • Adheres to vertical surfaces • Excellent immersion resistance • Moisture tolerant/adheres to damp surfaces • Seals leaks with quick return to service • Bonds chemically and mechanically to the substrate • Mutipurpose epoxy adhering to concrete, stainless steel and more
Uses	<ul style="list-style-type: none"> • Secondary Containment • Cooling Towers • Wet wells, manholes, lift stations • Drain Pans • Tank Linings
Color	Light Gray, Dark Gray, Red, Blue
Finish	Gloss
Dry Film Thickness (DFT)	8 – 12 mils per coat vertical 18 – 24 mil flood coat on horizontals typical
Solids Content	99 – 100% by volume

SUBSTRATES & SURFACE PREPARATION

All	Substrate must be clean, dry and free of contaminants.
Steel	<p>Immersion: SSPC-SP 10/NACE 2 Near White Metal Blast with angular profile of 2.5 – 3.5 mils.</p> <p>Non-immersion: SSPC-SP 6/NACE 3 Commercial Blast with angular profile of 1.5 – 3.0 mils, SSPC-SP 2 Hand Tool or SSPC-SP 3 Power Tool Cleaning are suitable for mild environments.</p> <p>Self-priming on steel.</p>
Concrete or Concrete Masonry Unit (CMU)	Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with SSPC-SP 13/NACE 6. Required surface profile is CSP 3-5. Voids in concrete surfaces may require filling. Mortar joints should be cured a minimum of 15 days. Prime with Restech RT1100 Primer/Sealer.
Previously Painted Surfaces	Consult with ResTech Technical Service.

MIXING & THINNING

Mixing	Power mix separately, then combine and power mix. Do not mix partial kits.
Thinning	<p>Brush: Up to 16 oz/gal (12%) with Acetone</p> <p>Roller: Up to 16 oz/gal (12%) with Acetone</p> <p>Spray: Up to 6.5 oz/gal (5%) with Acetone</p>
Pot Life	<p>8 hours 20 minutes at 41°F (5°C)</p> <p>2 hours at 77°F (25°C)</p> <p>50 minutes at 92°F (33°C)</p> <p>Pot life is shorter at higher temperatures. A larger volume of mixed material will have a shorter pot life than a smaller volume.</p>
Cleanup	MEK or Acetone

APPLICATION GUIDANCE

Spray Application	Consult ResTech Technical Service for guidance.
Brush	Medium bristle brush
Roller	Short-nap synthetic roller cover with phenolic core
Squeegee	Single blade neoprene straight squeegee

SAFETY

Safety	Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.
Ventilation	Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

CURE SCHEDULE & RECOAT WINDOW

TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT	RETURN TO SERVICE (HYDROCARBON IMMERSION)
10°C (50°F)	8 hours	14 days	7 days
25°C (77°F)	4 hours	14 days	72 hours
60°C (140°F)	1 hour	Not recommended	4 hours

Return-to-service varies with chemical exposure. Consult ResTech Technical Service for guidance.

ESTIMATING & HANDLING

Theoretical Coverage

200 square feet per gallon at 8 mils
66 square feet per gallon at 24 mils
Allow for loss in mixing and application.

Storage & Shelf Life

Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 12 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with Restech.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	SYSTEM	VALUE
Dry adhesion ASTM D4541	Blasted steel 1 coat	>2,500 psi
Dry adhesion ASTM D4541	Scuffed FBE 1 coat	>2,000 psi
Wet adhesion ASTM D4541 5 days 158°F (70°C) water	Blasted steel 1 coat	>2,500 psi
Abrasion ASTM D4060 1000 cycles CS17 wheel 1000 gm load	Blasted steel 1 coat	80 mg loss 770 cycles per mil
Compressive strength ASTM C109	Blasted steel 1 coat	10,000 – 13,000 psi
Hardness ASTM D2240	Blasted steel 1 coat	83 – 90 Shore D
Meets the performance requirements of AWWA C210		

SERVICE TEMPERATURE

SERVICE	MAXIMUM TEMPERATURE
Dry, continuous	220°F (104°C)
Dry, non-continuous	250°F (121°C)

Temperature limitations will vary with chemical exposure. Consult Restech Technical Service for guidance.

Discoloration and loss of gloss occur above 200°F (93°C) but do not affect performance.