

SELECTION & SPECIFICATION DATA

Type	Zinc Rich Polyamido-Amine Epoxy
Description	ResSeal Rust Inhibitor is a surface tolerant, penetrating coating designed to be used without a primer or topcoat to seal concrete or protect metal from atmospheric corrosion. It can easily be applied by brush or roller at 4 to 8 mils over manually prepared surfaces where blasting is not allowed.
Features	<ul style="list-style-type: none"> • 100% solids, VOC Free • Exceptional wetting characteristics • Corrosion Resistant • Surface tolerant
Uses	<ul style="list-style-type: none"> • Corroded or Rusted Surfaces • Pipe exterior and pipe racks • Support columns • Tank tops • Bolted connections • Edge and corner protection
Color	Silver
Finish	Gloss
Primer	Self-priming
Topcoats	Acrylics, epoxies, polyurethanes
Dry Film Thickness (DFT)	4 – 8 mils per coat
Solids Content	99% – 100% by volume
Limitations	Will lose gloss, discolor, and chalk in sunlight (UV exposure).

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-SP2 Hand Tool or SSPC-SP3 Power Tool Cleaning are suitable for mild environments.</p>
Concrete or Concrete Masonry Unit (CMU)	Concrete must be cured a minimum of 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 1 as stand-alone coating, CSP 3-5 with topcoat. Voids in concrete surfaces may require filling. Mortar joints should be cured a minimum of 15 days.
Previously Painted Surfaces	Consult with ResTech Technical Service.

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.

MIXING & THINNING

Mixing Do not mix partial kits. Thoroughly mix small batches with a mixing knife. For larger kits, power mix parts A and B separately, then combine and power mix.

Thinning Brush: Up to 16 oz/gal (12%) with Acetone
Roller: Up to 16 oz/gal (12%) with Acetone

Pot Life 30 minutes at 77°F (25°C)
15 minutes at 92°F (33°C)
Not recommended below 60°F (15°C)

Pot life is shorter at higher temperatures. A larger volume of mixed material will have a shorter pot life than a smaller volume.

Cleanup MEK or Acetone

APPLICATION GUIDANCE

Spray Application The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Airless Spray Single Leg or Hot Pot Pump Size: 56:1 or greater
Output: 5,600 psi, filter removed
Tip Size: 0.021 - 0.029 inch
Hose: 3/8 inch ID x 100 feet maximum
Whip: 1/4 inch ID x 10 feet maximum

Brush & Roller This material may be applied with brush or roller. Be aware of work life when using brush or roller.

Brush Use a medium bristle brush.

Roller Use a short-nap synthetic roller cover with phenolic core.

CURE SCHEDULE & RECOAT WINDOW

TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT	RETURN-TO-SERVICE (HYDROCARBON IMMERSION)
60°F (15°C)	10 hours	48 hours	7 days
77°F (25°C)	8 hours	24 hours	24 hours
100°F (37°C)	2 hour	4 hours	4 hours
Dry-to-touch: 3 hours at 77°F (25°C)			

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

ResSeal Rust Inhibitor



ESTIMATING & HANDLING

Theoretical Coverage 401square feet per gallon at 4 mils
200 square feet per gallon at 8 mils
Allow for loss in mixing and application.

Shelf Life 12 months at 75°F (24°C) when stored under recommended conditions.

Storage Conditions 40°F – 110°F (4°C – 43°C)
0 – 100% relative humidity

Store in a dry area out of direct sunlight. Maintain product in original packaging and sealed until ready for use.

TYPICAL PHYSICAL PROPERTIES

TEST METHOD	SYSTEM	RESULTS
Dry adhesion ASTM D4541	Blasted steel 1 coat	>1,600 psi
Dry adhesion ASTM D4541	Concrete	>500 psi concrete failure
Flexibility ASTM D522-4	Steel 1 coat	>35%

TEMPERATURE RESISTANCE

SERVICE	MAXIMUM TEMPERATURE
Dry, continuous	200°F (93.3°C)
Dry, non-continuous	300°F (149°C)