



### SELECTION & SPECIFICATION DATA

<b>Type</b>	Zinc Rich Polyamido-Amine Epoxy
<b>Description</b>	Novocoat DTM Epoxy 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.
<b>Features</b>	<ul style="list-style-type: none"> <li>• 100% solids, no VOCs</li> <li>• Exceptional wetting characteristics</li> <li>• Low stress, highly flexible film</li> <li>• Surface tolerant</li> </ul>
<b>Uses</b>	<ul style="list-style-type: none"> <li>• Primer/sealer</li> <li>• Pipe exterior and pipe racks</li> <li>• Support columns</li> <li>• Tank tops</li> <li>• Bolted connections</li> <li>• Edge and corner protection</li> </ul>
<b>Color</b>	Silver
<b>Finish</b>	Gloss
<b>Primer</b>	Self-priming
<b>Topcoats</b>	Acrylics, epoxies, polyurethanes
<b>Dry Film Thickness (DFT)</b>	4 – 8 mils per coat
<b>Solids Content</b>	99 – 100% by volume
<b>Limitations</b>	Will lose gloss, discolor, and chalk in sunlight (UV exposure).

### SUBSTRATES & SURFACE PREPARATION

<b>All</b>	Substrate must be clean, dry and free of contaminants.
<b>Steel</b>	<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>
<b>Concrete or Concrete Masonry Unit (CMU)</b>	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.
<b>Previously Painted Surfaces</b>	Consult with ErgonArmor Technical Service.

### SAFETY

<b>Safety</b>	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.
<b>Ventilation</b>	Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

### MIXING & THINNING

<b>Mixing</b>	Do not mix partial kits. Thoroughly mix small kits using the mixing knife provided. For large units, empty entire contents of hardener container into resin container and power mix to combine.
<b>Thinning</b>	Brush: Up to 16 oz/gal (12%) with Novocoat TH1710 Thinner Roller: Up to 16 oz/gal (12%) with Novocoat TH1710 Thinner
<b>Pot Life</b>	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.

<b>Cleanup</b>	MEK or Acetone
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### APPLICATION GUIDANCE

<b>Spray Application</b>	The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.
<b>Airless Spray Single Leg or Hot Pot</b>	<p>Pump Size: 56:1 or greater</p> <p>Output: 5,600 psi, filter removed</p> <p>Tip Size: 0.021-inch – 0.029-inch</p> <p>Hose: 3/8-inch ID x 100 feet maximum</p> <p>Whip: 1/4-inch ID x 10 feet maximum</p>
<b>Brush &amp; Roller</b>	This material may be applied with brush or roller. Be aware of work life when using brush or roller.
<b>Brush</b>	Use a medium bristle brush.
<b>Roller</b>	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 chemical exposure. Consult ErgonArmor Technical Service for guidance.



### PACKAGING, ESTIMATING & HANDLING

ITEM #	PRODUCT	PACKAGING
M-RI80-QTCS-01	Novocoat DTM Epoxy, Silver Case includes 1 mixing board. Each kit includes: - Part A Resin, Silver - Part B Hardener - Mixing knife, chip brush	4 x 2.2-lbs (1 kg) Kit Case  1.76 lbs (0.8 kg) Jar 0.44 lbs (0.2 kg) Jar
M-RI80-1GLKT-01	Novocoat DTM Epoxy, Silver - Part A Resin, Silver - Part B Hardener	1 gal (3.8 L) Kit  0.65 gal (2.46 L) Pail 0.23 gal (0.87 L) Bottle

**Theoretical Coverage** 401 square feet per gallon at 4 mils  
200 square feet per gallon at 8 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 75°F (24°C). Actual shelf life may vary with storage conditions. Do not store below 40°F (4°C) or above 110°F (43°C).

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

### TYPICAL PHYSICAL PROPERTIES

PROPERTY	SYSTEM	VALUE
Dry adhesion ASTM D4541	Blasted steel 1 coat	>1,600 psi (11 MPa)
Dry adhesion ASTM D4541	Concrete	>500 psi (3.4 MPa), concrete failure
Flexibility ASTM D522-4	Steel 1 coat	>35%

### SERVICE TEMPERATURE

SERVICE	MAXIMUM TEMPERATURE
Dry, continuous	200°F (93°C)
Dry, non-continuous	300°F (149°C)

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

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