

SELECTION & SPECIFICATION DATA

Type	Zinc Rich Polyamido-Amine Epoxy
Description	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.
Features	<ul style="list-style-type: none"> • 100% solids, no VOCs • Exceptional wetting characteristics • Low stress, highly flexible film • Surface tolerant
Uses	<ul style="list-style-type: none"> • Primer/sealer • Pipe exterior and pipe racks • Support columns • Tank tops • Bolted connections • Edge and corner protection
Color	Aluminum gray
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 ErgonArmor 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

Ratio	4A:1B by weight, 2.8A:1B by volume
Mixing	DO NOT MIX PARTIAL KITS. Power mix parts A and B separately, then combine and power mix.
Thinning	Brush: Up to 16 oz/gal (12%) with Novocoat TH1710 Thinner Roller: Up to 16 oz/gal (12%) with Novocoat TH1710 Thinner
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 ErgonArmor Technical Service for guidance.

ESTIMATING & PACKAGING

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.

Package Sizes Light Gray, 4 x 2.2-lbs (1 kg) Kit Case
 Each 2.2 lbs (1 kg) kit includes
 - Part A Resin Light Gray, 1.76 lbs (0.8 kg) Jar
 - Part B Hardener Clear 0.44 lbs (0.2 kg) Jar
 - Mixing knife and chip brush
 Item #: M-RI80-QTCS-01

Light Gray, 0.88 gal (3.33 L) Kit
 - Part A Resin Light Gray, 0.65 gal (2.46 L) Pail
 - Part B Resin Clear, 0.23 gal (0.87 L) Bottle
 Item #: M-RI80-1GLKT-01

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)

STORAGE & SHELF LIFE

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.

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