

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	• 100% solids, no VOCs • Exceptional wetting characteristics • Low stress, highly flexible film • Surface tolerant
Uses	• Primer/sealer • Pipe exterior and pipe racks • Support columns • Tank tops • Bolted connections • Edge and corner protection
Color	Light 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	Immersion: SSPC-SP 10/NACE 2 Near White Metal Blast with angular profile of 2.5 - 3.5 mils. 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.
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 Armor Technical Service.

MIXING & THINNING

Mixing	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.
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
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APPLICATION GUIDELINES

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-inch - 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 hours	4 hours	4 hours
Dry-to-touch: 3 hours at 77°F (25°C)			
Return-to-service varies with chemical exposure. Consult Armor Technical Service for guidance.			

PACKAGING, ESTIMATING & HANDLING

ITEM#	PRODUCT	PACKAGING
M-RI80-QTCS-01	Novocoat DTM Epoxy, Light Gray Case includes 1 mixing board. Each kit includes: - Part A Resin, Light Gray - Part B Hardener - Mixing knife, chip brush	4 x 24.6 fl oz (728 mL) Kit Case 18.0 fl oz (532 mL) Jar 6.6 fl oz (195 mL) Jar

M-RI80-1GLKT-01	Novocoat DTM Epoxy, Light Gray - Part A Resin, Light Gray - Part B Hardener	1.0 gal (3.8 L) Kit 0.65 gal (2.46 L) Pail 29.0 fl oz (858 mL) Bottle
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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 Armor.

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.

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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