

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 | 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 | <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> |
| 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.

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 | <p>Brush: Up to 16 oz/gal (12%) with Novocoat TH1710 Thinner</p> <p>Roller: Up to 16 oz/gal (12%) with Novocoat TH1710 Thinner</p> |
| Pot Life | <p>30 minutes at 77°F (25°C)</p> <p>15 minutes at 92°F (33°C)</p> <p>Not recommended below 60°F (15°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 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 | <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> |
| 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 ErgonArmor 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 (0.7 mL) Kit Case 18 fl oz (0.5 mL) Jar 6.6 fl oz (0.2 mL) Jar |
| M-RI80-1GLKT-01 | Novocoat DTM Epoxy, Light Gray - Part A Resin, Light Gray - Part B Hardener | 1 gal (3.8 L) Kit 0.65 gal (2.5 L) Pail 29 fl oz (0.2 mL) 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.

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.

Rev. 07/2025

TERMS AND CONDITIONS OF SALE

While statements, technical information and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user. For all Terms and Conditions of Sale see ergonarmor.com.