

SELECTION & SPECIFICATION DATA

Type	Polyamide Epoxy
Description	Novocoat SP2000R Self-leveling Epoxy is a self-leveling epoxy lining that cures underwater and forms a tight bond, even to marginally prepared surfaces and tightly adhered rust. Seal damp cooling tower pans with minimal downtime. Recycled tire rubber fillers and no VOCs give this environmentally-friendly, economical alternative to coal tar epoxy superior impact resistance and range of use.
Features	• 100% solids, no VOCs • Excellent immersion resistance • Long-term wear protection • Adhesion to damp substrates/underwater cure • Meets AWWA C210 performance requirements
Uses	• Primer • Wet wells, manholes, lift stations • Secondary containment • Multipurpose epoxy • Cooling tower basins
Color	Light gray, dark gray, red
Finish	Gloss
Dry Film Thickness (DFT)	8 – 12 mils per coat vertical 18 – 24 mil flood coat on horizontals typical
Solids Content	99 – 100% by volume

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-SP2 Hand Tool or SSPC-SP3 Power Tool Cleaning are suitable for mild environments. Self-priming on steel.
Concrete or Concrete Masonry Unit (CMU)	Concrete must be cured 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 3-5. Voids in concrete surfaces may require filling. Mortar joints should be cured a minimum of 15 days. Prime with Novocoat SC1100 Concrete Primer.
Previously Painted Surfaces	Consult with ErgonArmor Technical Service.

MIXING & THINNING

Mixing	Power mix separately, then combine and power mix. Do not mix partial kits.
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	8 hours 20 minutes at 41°F (5°C) 2 hours at 77°F (25°C) 50 minutes at 92°F (33°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	Consult ErgonArmor Technical Service for guidance.
Brush	Medium bristle brush
Roller	Short-nap synthetic roller cover with phenolic core
Squeegee	Single blade neoprene straight squeegee

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.

CURE SCHEDULE & RECOAT WINDOW

TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT	RETURN TO SERVICE (HYDROCARBON IMMERSION)
10°C (50°F)	8 hours	14 days	7 days
25°C (77°F)	4 hours	14 days	72 hours
60°C (140°F)	1 hour	Not recommended	4 hours

Return-to-service varies with chemical exposure. Consult ErgonArmor Technical Service for guidance.

ESTIMATING & PACKAGING

Theoretical Coverage	200 square feet per gallon at 8 mils 66 square feet per gallon at 24 mils Allow for loss in mixing and application.
Package Sizes	Light Gray, 1 gal (3.7 L) Kit - Part A Resin Light Gray, 0.72 gal (2.7 L) Pail - Part B Hardener, 0.26 gal (1 L) Bottle Item #: M-SP2010-1GLKT-01 Light Gray, 4 gal (15.2 L) Kit - Part A Resin Light Gray, 2.9 gal (11 L) Pail - Part B Hardener, 1.1 gal (4.2 L) Pail Item #: M-SP2010-4GLKT-01 Dark Gray, 1 gal (3.7 L) Kit - Part A Resin Dark Gray, 0.72 gal (2.7 L) Pail - Part B Hardener, 0.26 gal (1 L) Bottle Item #: M-SP2020-1GLKT-01 Red, 1 gal (3.7 L) Kit - Part A Resin Red, 0.72 gal (2.7 L) Pail - Part B Hardener, 0.26 gal (1 L) Bottle Item #: M-SP2040-1GLKT-01
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 70°F (21°C). Actual shelf life may vary with storage conditions. 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	>2,500 psi
Dry adhesion ASTM D4541	Scuffed FBE 1 coat	>2,000 psi
Wet adhesion ASTM D4541 5 days 158°F (70°C) water	Blasted steel 1 coat	>2,500 psi
Abrasion ASTM D4060 1000 cycles CS17 wheel 1000 gm load	Blasted steel 1 coat	80 mg loss 770 cycles per mil
Compressive strength ASTM C109	Blasted steel 1 coat	10,000 – 13,000 psi
Hardness ASTM D2240	Blasted steel 1 coat	83 – 90 Shore D
Meets the performance requirements of AWWA C210		

SERVICE TEMPERATURE

SERVICE	MAXIMUM TEMPERATURE
Dry, continuous	220°F (104°C)
Dry, non-continuous	250°F (121°C)

Temperature limitations will vary with chemical exposure. Consult ErgonArmor Technical Service for guidance.

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

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