

## SELECTION & SPECIFICATION DATA

<b>Type</b>	Cycloaliphatic Amine-Cured Novolac Epoxy
<b>Description</b>	Novocoat SC5400 Lining is a 100% solids novolac epoxy coating for floors, secondary containment, fume ducts, piping and bulk storage tanks. Densely cross-linked, it resists permeation by organic acids, caustics and petrochemicals.
<b>Features</b>	<ul style="list-style-type: none"> <li>Resistant to wide range of acids and caustics</li> <li>Low permeation rate for tank lining service</li> <li>Solvent free – 100% solids</li> <li>Plural or single leg spray application</li> <li>Quick return-to-service – 24 hours at 77°F (25°C) for hydrocarbon immersion service</li> </ul>
<b>Uses</b>	<ul style="list-style-type: none"> <li>Internal lining for bulk storage tanks, pipes and process equipment</li> <li>Process floors and trenches</li> <li>Secondary containment areas</li> <li>Equipment supports and pads</li> <li>Heat exchangers and tube sheets</li> </ul>
<b>Color</b>	Light gray, dark gray
<b>Finish</b>	Gloss
<b>Dry Film Thickness (DFT)</b>	2 – 3 coats at 10 – 12 mils each 3 – 4 coats at 10 – 12 mils each for high temperature or severe chemical service
<b>Solids Content</b>	99 – 100% by volume

## 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> <p>Self-priming on steel.</p>
<b>Concrete or Concrete Masonry Units (CMU)</b>	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.
<b>Previously Painted Surfaces</b>	Consult with ErgonArmor Technical Service.

## MIXING & THINNING

<b>Ratio</b>	3.3A:1B by volume, 5A:1B by weight
<b>Mixing</b>	Power mix Part A and Part B separately. For brush, roller or single leg spray application, combine Part A with Part B and power mix.
<b>Thinning</b>	<p>Spray: Up to 6.5 oz/gal (5%) with Novocoat TH1710 Thinner</p> <p>Brush: Up to 12.8 oz/gal (10%) with Novocoat TH1710 Thinner</p> <p>Roller: Up to 12.8 oz/gal (10%) with Novocoat TH1710 Thinner</p>
<b>Pot Life</b>	30 minutes at 75°F (24°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

## 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 Plural Component</b>	<p>Tip Size: 0.027 – 0.029 in reversible type</p> <p>Part A Fluid Line: 1/2 in ID</p> <p>Part B Fluid Line: 3/8 in ID</p> <p>Spray Line: 1/2 in ID x 50 feet maximum</p> <p>Whip: 1/4 in – 3/8 in ID</p> <p>Whip Length: 20 feet maximum</p> <p>Output Pressure:</p> <p>Pump Size: 56:1 or greater</p> <p>Static Mixer: 2 x 1/2 in ID x 12 in (24 inches total length) behind mixing valve</p> <p>Part A Temperature: 130°F – 135°F (54°C – 57°C)</p> <p>Part B Temperature: 90°F – 95°F (32°C – 35°C)</p>

<b>Airless Spray Single Leg or Hot Pot</b>	<p>Pump Size: 56:1 (minimum)</p> <p>Output: 5600 – 7000 psi with filter removed</p> <p>Hose Length: 50 ft x 3/8 in ID (minimum)</p> <p>Whip Length: 10 ft maximum x 1/4 in – 3/8 in ID</p> <p>Tip Size: 0.027 in – 0.029 in</p>
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<b>Brush &amp; Roller</b>	Multiple coats may be required to obtain desired appearance, recommended dry film thickness and adequate hiding. Avoid excessive re-brushing or re-rolling. For best results, tie in within 10 minutes at 75°F (24°C).
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<b>Brush</b>	Medium bristle brush
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<b>Roller</b>	Short-nap synthetic roller cover with phenolic core
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## CURE SCHEDULE & RECOAT WINDOW

SUBSTRATE TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT	RETURN TO SERVICE (IMMERSION)
50°F (10°C)	8 hours	24 hours	14 days
77°F (25°C)	3 hours	12 hours	7 days
140°F (60°C)	30 minutes	1 hour	4 hours

Return-to-service will vary with cargo. Consult with ErgonArmor Technical Service for guidance.

## 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.

## ESTIMATING & PACKAGING

### Theoretical Coverage

160 square feet per gallon at 10 mils DFT  
133 square feet per gallon at 12 mils DFT  
Allow for loss in mixing and application.

### Package Sizes

Light Gray, 4 x 2.3 lbs (1 kg) Kit Case  
Each 2.3 lb kit includes  
- Part A Resin, Light Gray 30 oz (862 g) Pail  
- Part B Hardener, 6.1 oz (172 g) Jar  
- Chip brush and mixing knife  
Item #: M-SC5410-QTCS-01

Light Gray, 1-gal (3.8 L) Kit  
- Part A Resin, Light Gray 0.77 gal (2.9 L) Pail  
- Part B Hardener, 0.24 gal (0.87 L) Pail  
Item #: M-SC5410-1GLKT-01

Light Gray, 4-gal (15 L) Kit  
- Part A Resin, Light Gray 3.1 gal (11.7 L) Pail  
- Part B Hardener, 0.94 gal (3.6 L) Pail  
Item #: M-SC5410-4GLKT-01

Light Gray, 207-gal (782 L) Kit  
- Part A Resin, Light Gray 52 gal (197 L) Drum  
- Part B Hardener, 51 gal (192 L) Drum  
Item #: M-SC5410-200GLKT-1

Dark Gray, 4 X 2.3 lbs (1 kg) Kit Case  
Each 2.3 lb kit includes  
- Part A Resin, Dark Gray 30 oz (862 g) Pail  
- Part B Hardener, 6.1 oz (181 g) Jar  
- Chip brush and mixing knife  
Item #: M-SC5420-QTCS-01

Dark Gray, 1-gal (3.8 L) Kit  
- Part A Resin, Dark Gray 0.77 gal (2.9 L) Pail  
- Part B Hardener, 0.24 gal (0.87 L) Pail  
Item #: M-SC5420-1GLKT-01

Dark Gray, 4-gal (15 L) Kit  
- Part A Resin, Dark Gray 3.1 gal (11.7 L) Pail  
- Part B Hardener, 0.94 gal (3.6 L) Pail  
Item #: M-SC5420-4GLKT-01

### Storage & Shelf Life

Maintain product 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. Consult ErgonArmor Technical Service for assistance.

## TYPICAL PHYSICAL PROPERTIES

TEST METHOD	SYSTEM	RESULTS
Dry adhesion ASTM D4541	Blasted steel 1 coat	>2,500 psi
Wet adhesion ASTM D4541 5 days 158°F (70°C) water	Blasted steel 1 coat	>2,500 psi
Abrasion resistance ASTM D4060	Blasted steel 1 coat	17 mg loss per 1000 cycles, CS17 wheel 1000 g load 0.1 mil loss per 1000 cycles
Compressive strength ASTM C109		10,000 – 13,000 psi
Hardness ASTM D2240	Blasted steel 1 coat	84 Shore D

## TEMPERATURE RESISTANCE

SERVICE	MAXIMUM TEMPERATURE
Dry, continuous	450°F (232°C)
Dry, intermittent	500°F (260°C)

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

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

Rev 01/2021

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