

Novocoat™ SC3100 HT Lining

SELECTION & SPECIFICATION DATA

Type	Novolac Epoxy
Description	Novocoat SC3100 HT 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, while ceramic fillers offer enhanced abrasion and temperature resistance.
Features	• Excellent resistance to wide range of acids and caustics • Low permeation rate for tank lining service • Solvent free - 100% solids • Suitable for single leg application • Quick return-to-service (24 hours at 77°F (25°C) for hydrocarbon immersion service)
Uses	• Floors and trenches in chemical process areas • Secondary containment areas • Process equipment supports and pads • Heat exchangers and tube sheets • Internal pipeline and vessel linings
Color	Light gray, red
Finish	Gloss
Dry Film Thickness (DFT)	2 - 3 coats at 10 - 12 mils each 3 - 4 coats at 10 - 12 mils each for high temperatures/severe chemical service
Solids Content	99 - 100% by volume

SUBSTRATES & SURFACE PREPARATION

All	Substrate must be clean, dry and free of contaminants.
Steel	Immersion: SSPC-SP10 Near White Metal Blast with angular profile of 2.5 - 3.5 mils. Non-immersion: SSPC-SP6 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. 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 ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete surfaces may require filling. Mortar joints should be cured a minimum of 15 days. Prime with Novocoat SC1100 Primer/Sealer.
Previously Painted Surfaces	Consult with ErgonArmor Technical Service.

MIXING & THINNING

Ratio	3A:1B by volume
Mixing	Power mix separately, then combine and power mix. Do not mix partial kits.
Thinning	Brush: Up to 12.8 oz/gal (10%) with Novocoat TH1710 Thinner Roller: Up to 12.8 oz/gal (10%) with Novocoat TH1710 Thinner
Pot Life	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.
Cleanup	MEK or Acetone

APPLICATION GUIDELINES

Brush & Roller	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).
Brush	Medium bristle brush.
Roller	Short-nap synthetic roller cover with phenolic core.

CURE SCHEDULE & RECOAT WINDOW

TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT	RETURN-TO-SERVICE (HYDROCARBON IMMERSION)
50°F (10°C)	8 hours	24 hours	7 days
77°F (25°C)	3 hours	12 hours	24 hours
140°F (60°C)	Not recommended		4 hours
Dry-to-touch: 4 hours at 77°F (25°C)			

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

PACKAGING, ESTIMATING & HANDLING

ITEM#	PRODUCT	PACKAGING
M-SC3110-QTCS-01	Novocoat SC3100HT Lining Case includes tools Each kit includes: - Part A Resin, Light Gray - Part B Hardener - Mixing knife, chip brush	4 x 2.2-lbs (1 kg) Kit Case 1.8 lbs (29 kg) 6.1 oz (172 g)
M-SC3110-10QTPK-01	Novocoat SC3100HT Lining Case, Light Gray Each kit includes: - Part A Resin, Light Gray - Part B Hardener	10 x 2.2 lbs (1 kg) Kit Case 1.8 lbs (29 kg) 6.1 oz (172 g)
M-SC3110-1GLKT-01	Novocoat SC3100HT Lining - Part A Resin, Light Gray - Part B Hardener	88 fl oz (2.6 L) 28 fl oz (0.88 L)
M-SC3110-4GLKT-01	Novocoat SC3100HT Lining - Part A Resin, Light Gray - Part B Hardener	2.9 gal (11 L) 1 gal (3.8 L)
M-SC3140-QTCS-01	Novocoat SC3100HT Lining Case includes tools Each kit includes: - Part A Resin, Red - Part B Hardener - Mixing knife, chip brush	4 x 2.2-lbs (1 kg) Kit Case 1.8 lbs (29 kg) 6.1 oz (172 g)
M-SC3140-10QTPK-01	Novocoat SC3100HT Lining Case, Red Each kit includes: - Part A Resin, Red - Part B Hardener	10 x 2.2 lbs (1 kg) Kit Case 1.8 lbs (29 kg) 6.1 oz (172 g)
M-SC3140-1GLKT-01	Novocoat SC3100HT Lining - Part A Resin, Red - Part B Hardener	0.68 gal (2.6 L) 0.22 gal (0.8 L)
M-SC3140-4GLKT-01	Novocoat SC3100HT Lining - Part A Resin, Red - Part B Hardener	2.8 gal (11 L) 1 gal (3.8 L)
Theoretical Coverage	160 square feet per gallon at 10 mil 133 square feet per gallon at 12 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 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.	

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	>3,000 psi
Wet adhesion ASTM D4541	Blasted steel 1 coat	>3,000 psi
Abrasion resistance ASTM D4060 1000 cycles, CS17 wheel, 1000 gm load	Blasted steel 1 coat	65 mg loss 0.5 mil loss
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	300°F (149°C)
Dry, non-continuous	350°F (177°C)
Under insulation	300°F (149°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.

Rev. 10/2025

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