

Novocoat SC3300 Novolac Epoxy Lining

SELECTION & SPECIFICATION DATA

Type	Cycloaliphatic Amine-Cured Novolac Epoxy
Description	Densely cross-linked, 100% solids epoxy novolac coating that provides superior long-term resistance to a wide range of acids, salts and strong caustics. The outstanding adhesion properties of Novocoat SC3300 Novolac Epoxy Lining make it ideal for use on marginally-prepared substrates while delivering maximum performance. Outstanding adhesion to previously epoxy-coated substrates provides extended recoat window.
Features	• Excellent thermal compatibility with steel and concrete • Low permeation rate for tank lining service • Solvent free – 100% solids • Plural or single leg application • Quick return-to-service – 24 hours at 77°F (25°C) for hydrocarbon immersion service • Single-coat application
Uses	• High-temperature immersion tank lining • Crude oil storage to 350°F (177°C) • Floors and chemical trenches in process areas • Secondary containment areas • Bulk petroleum storage tank lining • Process equipment supports and pads • Truck loading and unloading pads • Internal pipeline, vessel and bulk storage tank linings
Color	Putty, Light Gray, White, Beige
Finish	Gloss
Dry Film Thickness (DFT)	15 – 24 mils per coat
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 Units (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

Ratio	3A:1B by volume
Mixing	For single leg spray, brush or roller, power mix parts A and B separately, then combine and power mix.
Thinning	Spray: Up to 6.5 oz/gal (5%) with Novocoat TH1710 Thinner Brush: Up to 16 oz/gal (12%) with Novocoat TH1710 Thinner Roller: Up to 16 oz/gal (12%) with Novocoat TH1710 Thinner
Pot Life	35 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 GUIDANCE

Spray Application	The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.
Airless Spray Plural Component	Tip Size: 0.021 in – 0.027 in reversible type Part A Fluid Line: 1/2 in ID Part B Fluid Line: 3/8 in ID Spray Line: 1/2 in ID x 100 feet maximum Whip: 1/4 in – 3/8 in ID Length of Whip: 6 feet maximum Pump Size: 56:1 or greater Static Mixer: 2 x 1/2 in ID x 12 in line (24 inches total) in length behind mixing valve Part A Temperature: 130°F – 135°F (54°C – 57°C) Part B Temperature: 90°F – 95°F (32°C – 35°C) Output: 4000 - 6000 psi, filter removed
Airless Spray Single Leg or Hot Pot	Pump Size: 56:1 (minimum) Hose Length: 50 ft x 3/8 in ID (minimum) Whip Length: 10 ft x 1/4 in – 3/8 in ID (minimum) Tip Size: 0.021 in – 0.027 in Output: 4300 – 6000 psi, filter removed
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	Use a medium bristle brush.
Roller	Use a 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	14 days	14 days
77°F (25°C)	3 hours	14 days	7 days
140°F (60°C)	30 minutes	1 hour	4 hours
Dry-to-touch: 4 hours at 77°F (25°C)			

Return-to-service varies with cargo. Consult 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

106 square feet per gallon at 15 mils
66 square feet per gallon at 24 mils
Allow for loss in mixing and application.

Package Sizes

Putty, 4 x 2.2 lb (1 kg) Kit Case
Each 2.2 lb (1 kg) Kit includes
- Part A Resin Beige, 1.8 lb (0.8 kg) Jar
- Part B Hardener Black, 0.4 lb (0.17 kg) Jar

Putty, 1 gal (4 L) Kit
- Part A Resin Beige, 0.8 gal (3 L) Pail
- Part B Hardener Black, 0.3 gal (1 L) Pail

Beige, 1 gal (4 L) Kit
- Part A Resin Beige, 0.8 gal (3 L) Pail
- Part B Hardener Clear, 0.3 gal (1 L) Pail

Putty, 4 gal (15 L) Kit
- Part A Resin Beige, 3 gal (11 L) Pail
- Part B Hardener Black, 1 gal (3.8 L) Pail

Beige, 4 gal (15 L) Kit
- Part A Resin Beige, 3 gal (11 L) Pail
- Part B Hardener Clear, 1 gal (3.8 L) Pail

Light Gray, 4 gal (16 L) Kit
- Part A Resin Light Gray, 3 gal (12 L) Pail
- Part B Hardener Black, 1 gal (3.8 L) Pail

White, 4 gal (16 L) Kit
- Part A Resin White, 3 gal (12 L) Pail
- Part B Hardener Clear, 1 gal (3.8 L) Pail

Putty, 20 gal (76 L) Kit, for plural spray
- Part A Resin Beige, 3 x 5 gal (19 L) Pails
- Part B Hardener Black, 5 gal (19 L) Pail

Putty, 200 gal (757 L) Kit, for plural spray
- Part A Resin Beige, 3 x 50 gal (189 L) Drums
- Part B Hardener Black, 50 gal (189 L) Drum

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

TEST METHOD	SYSTEM	RESULTS
Dry adhesion ASTM D4541	Blasted steel 1 coat	>3,000 psi
Wet adhesion ASTM D4541 5 days 158°F (70°C) water	Blasted steel 1 coat	>3,000 psi
Abrasion resistance ASTM D4060 1000 cycles CS17 wheel 1000 g load		63 mg loss 1,960 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

TEMPERATURE RESISTANCE

SERVICE	MAXIMUM TEMPERATURE
Dry, continuous	350°F (177°C)
Under insulation, continuous	300°F (149°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.

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