Novocoat SC3300 Series

SELECTION & SPECIFICATION DATA

Type
Cycloaliphatic Amine-Cured Novolac Epoxy

Description
Densely cross-linked, 100% solids epoxy novolac coating that provides superior long-term chemical resistance and corrosion protection against a wide range of acids, salts and strong caustics. The outstanding adhesion properties of SC3300 Series 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)
- Floor and chemical trenches in process areas
- Secondary containment areas
- Bulk petroleum storage tank lining
- Process equipment supports and pads exposed to acids
- Truck loading and unloading pads
- Internal pipeline and vessel linings

Color
White, Beige, Putty, Gray

Finish
Gloss

Primer
Self-priming

Dry Film Thickness
15.0 – 35.0 mils (maximum 40 mils) per coat

Solids Content
99 – 100% by volume

Theoretical Coverage Rate
1604 ft^2/gal at 1 mil
106 ft^2/gal at 15 mils
64 ft^2/gal at 25 mils
Allow for loss in mixing and application.

Maximum Dry Temperature Resistance
Continuous: 350°F (177°C)
Under insulation, continuous: 300°F (149°C)
Discoloration and loss of gloss occurs above 200°F (93°C) but does not affect performance.

SUBSTRATES & SURFACE PREPARATION

All
Surfaces 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 1.5 – 3.0 mils SSPC-SP2 or SP3 are suitable cleaning methods for mild environments.

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 ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require surfacing. Mortar joints should be cured a minimum of 15 days. Prime with Novocoat SC1100 Concrete Primer.

Previously Painted Surfaces
Consult with ErgonArmor

MIXING & THINNING

Mixing
Do not mix partial kits. Power mix 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

Use of thinners other than those supplied or recommended by ErgonArmor may adversely affect product performance and void product warranty, whether expressed or implied.

Ratio
3A:1B by volume

Pot Life
35 minutes at 75°F (24°C), shorter at higher temperatures.

APPLICATION EQUIPMENT GUIDELINES

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: 0.025 – 0.029 in reversible type
Diameter of Part A Fluid Line: 1/2 in ID
Diameter of Part B Fluid Line: 3/8 in ID
Spray Line: 1/2 in ID x 50 feet maximum
Diameter of Whip: 1/4 – 3/8 in ID
Length of Whip: 20 ft
Power Pump Ratio: 56:1 or greater
Static Mixer: 2 x 1/2 in ID x 12 in long behind mixing valve
Part A Temperature: 130°F – 135°F (54°C – 57°C) in reservoir tank
Part B Temperature: 90°F – 95°F (32°C – 35°C) in reservoir tank

Airless Spray Single Leg or Hot Pot
Power Pump Ratio: 56:1 (min)
Hose Length/Diameter: 50 ft x 3/8 in ID (min)
Whip Length/Diameter: 10 ft x 1/4 in – 3/8 in ID (min)
Tip Size: 0.023 in – 0.027 in
Output: 5600 – 7000 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.

Novocoat SC3300 Series

CLEANUP & SAFETY

Cleanup MEK or Acetone

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.

PACKAGING, HANDLING & STORAGE

Shelf Life Part A: 12 months at 75°F (24°C)
Part B: 12 months at 75°F (24°C)
When kept at recommended storage conditions and in original unopened containers

Package Sizes & Shipping Weight 1 gal kit: 13 lbs (6 kg)
4 gal kit: 55 lbs (25 kg)
200 gal drum kit: 2,560 lbs (1,164 kg)

Storage Temperature & Humidity 40°F – 110°F (4°C – 43°C)
0 – 100% relative humidity

Storage Store in a dry, well-ventilated area, indoors. Maintain products in original packaging and sealed until ready for use. Avoid exposure to direct sunlight or extreme temperatures.

PERFORMANCE DATA

TEST METHOD	SYSTEM	RESULTS
Adhesion ASTM D4541 Dry	Blasted Steel 1 ct	>3,000 psi
Adhesion ASTM D4541 Wet 5 days 70°C water	Blasted Steel 1 ct	>3,000 psi
Abrasion Resistance ASTM D4060	1000 cycles, CS17 wheel 1000 g load	0.51 mils loss of DFT 1,960 cycles per mil
Compressive Strength ASTM C109	Blasted Steel 1 ct	10,000 – 13,000 psi
Hardness ASTM D2240	Blasted Steel 1 ct	83 – 90 Shore "D"

CURE SCHEDULE & RECOAT WINDOW

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

Rev 10/18

Divison of Ergon Asphalt & Emulsions, Inc.
P.O. Box 1639, Jackson, MS 39215-1639 | 601-933-3381 Fax | 601-933-3595 Phone | 877-98ARMOR Toll-Free | ergonarmor.com