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

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
Do not mix partial kits. Power mix Part A and Part 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, 29.1 oz (826 g) Jar
- Part B Hardener Black, 6.1 oz (172 g) Jar

Putty, 1 gal (3.9 L) Kit
- Part A Resin Beige, 3 qt (2.85 L) Pail
- Part B Hardener Black, 1 qt (0.95 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

Putty, 20 gal (76 L) Kit
- 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
- Part A Resin Beige, 3 x 50 gal (189 L) Drums
- Part B Hardener Black, 50 gal (189 L) Drum

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.

STORAGE & SHELF LIFE

Shelf Life

12 months at 75°F (24°C) when stored under recommended conditions.

Storage Conditions

40°F – 110°F (4°C – 43°C)
0 – 100% relative humidity

Store in a dry area out of direct sunlight. Maintain product in original packaging and sealed until ready for use.

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