



# Novocoat SC3300 Novolac Epoxy Lining

## SELECTION & SPECIFICATION DATA

|                                 |  |
|---------------------------------|--|
| <b>Type</b>                     | Cycloaliphatic Amine-Cured Novolac Epoxy   |
| <b>Description</b>              | 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.                       |
| <b>Features</b>                 | <ul style="list-style-type: none"> <li>• Excellent thermal compatibility with steel and concrete</li> <li>• Low permeation rate for tank lining service</li> <li>• Solvent free – 100% solids</li> <li>• Plural or single leg application</li> <li>• Quick return-to-service – 24 hours at 77°F (25°C) for hydrocarbon immersion service</li> <li>• Single-coat application</li> </ul>   |
| <b>Uses</b>                     | <ul style="list-style-type: none"> <li>• High-temperature immersion tank lining</li> <li>• Crude oil storage to 350°F (177°C)</li> <li>• Floors and chemical trenches in process areas</li> <li>• Secondary containment areas</li> <li>• Bulk petroleum storage tank lining</li> <li>• Process equipment supports and pads</li> <li>• Truck loading and unloading pads</li> <li>• Internal pipeline, vessel and bulk storage tank linings</li> </ul> |
| <b>Color</b>                    | Putty, Light Gray, White, Beige  |
| <b>Finish</b>                   | Gloss  |
| <b>Dry Film Thickness (DFT)</b> | 15 – 24 mils per coat  |
| <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 Primer/Sealer. |

**Previously Painted Surfaces** Consult with ErgonArmor Technical Service.

## MIXING & THINNING

|                 |   |
|-----------------|---|
| <b>Ratio</b>    | 3A:1B by volume   |
| <b>Mixing</b>   | For single leg spray, brush or roller, power mix parts A and B separately, then combine and power mix.  |
| <b>Thinning</b> | <p>Spray: Up to 6.5 oz/gal (5%) with Novocoat TH1710 Thinner</p> <p>Brush: Up to 16 oz/gal (12%) with Novocoat TH1710 Thinner</p> <p>Roller: Up to 16 oz/gal (12%) with Novocoat TH1710 Thinner</p> |
| <b>Pot Life</b> | 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.   |
| <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: 0.021-inch – 0.027-inch reversible type</p> <p>Part A Fluid Line: 1/2-inch ID</p> <p>Part B Fluid Line: 3/8-inch ID</p> <p>Spray Line: 1/2-inch ID x 100 feet maximum</p> <p>Whip: 1/4-inch – 3/8-inch ID</p> <p>Length of Whip: 6 feet maximum</p> <p>Pump Size: 56:1 or greater</p> <p>Static Mixer: 2 x 1/2-inch ID x 12-inch line (24-inches total) in 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> <p>Output: 4000 - 6000 psi, filter removed</p> |
| <b>Airless Spray Single Leg or Hot Pot</b> | <p>Pump Size: 56:1 (minimum)</p> <p>Hose Length: 50 ft x 3/8-inch ID (minimum)</p> <p>Whip Length: 10 ft x 1/4-inch – 3/8 in ID (minimum)</p> <p>Tip Size: 0.021-inch – 0.027-inch</p> <p>Output: 4300 – 6000 psi, filter removed</p>   |
| <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).  |
| <b>Brush</b>                               | Use a medium bristle brush.   |
| <b>Roller</b>                              | 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 chemical exposure. 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  
Item #: M-EL3470-QTCS-01

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  
Item #: M-EL3470-1GLKT-01

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  
Item #: M-SC3370-1GLKT-01

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  
Item #: M-EL3470-4GLKT-01

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  
Item #: M-SC3370-4GLKT-01

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  
Item #: M-SC3310-4GLKT-01

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  
Item #: M-SC3360-4GLKT-01

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  
Item #: M-EL3470-20GLKT-01

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  
Item #: M-EL3470-200GLKT-1

### 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

| PROPERTY   | SYSTEM                  | VALUE                              |
|--|-------------------------|------------------------------------|
| Dry adhesion<br>ASTM D4541   | Blasted steel<br>1 coat | >3,000 psi                         |
| Wet adhesion<br>ASTM D4541<br>5 days 158°F (70°C) water                    | Blasted steel<br>1 coat | >3,000 psi                         |
| Abrasion resistance<br>ASTM D4060<br>1000 cycles<br>CS17 wheel 1000 g load |                         | 63 mg loss<br>1,960 cycles per mil |
| Compressive strength<br>ASTM C109  | Blasted steel<br>1 coat | 10,000 – 13,000 psi                |
| Hardness<br>ASTM D2240   | Blasted steel<br>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 chemical exposure. 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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### TERMS AND CONDITIONS OF SALE

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