

# Novocoat SC3100HT Lining

## SELECTION & SPECIFICATION DATA

<b>Type</b>	Novolac Epoxy
<b>Description</b>	Densely cross-linked 100% solids, ceramic-filled novolac epoxy coating with excellent chemical and high temperature resistance against organic acids, caustics and petroleum based products. May be used for floors, secondary containment, fume ducts, piping, and bulk storage tanks.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Excellent chemical resistance to wide range of acids and caustics</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> </ul>
<b>Uses</b>	<ul style="list-style-type: none"> <li>• Floor and chemical trenches in process areas</li> <li>• Secondary containment areas</li> <li>• Tube sheets</li> <li>• Chemical process equipment and pads exposed to acids</li> <li>• Heat exchangers</li> <li>• Internal pipeline and vessel linings</li> </ul>
<b>Color</b>	Light gray, red
<b>Finish</b>	Gloss
<b>Primer</b>	Self-priming
<b>Dry Film Thickness (DFT)</b>	2 – 3 coats at 10 – 12 mils each 3 – 4 coats at 10 – 12 mils each for high temps/severe chemical service
<b>Solids Content</b>	100% ± 1% by volume
<b>Theoretical Coverage Rate</b>	1604 square feet per gallon at 1 mil 106 square feet per gallon at 15 mils 64 square feet per gallon at 25 mils Allow for loss in mixing and application.
<b>Maximum Dry Temperature Resistance</b>	Continuous: 300°F (149°C) Non-Continuous: 350°F (177°C) Discoloration and loss of gloss occurs above 200°F (93°C) but does not affect performance.
<b>Under Insulation Resistance</b>	Continuous: 300°F (149°C) Discoloration and loss of gloss occurs above 200°F (93°C) but does not affect performance.

## SUBSTRATES & SURFACE PREPARATION

<b>All</b>	Surfaces must be clean and dry. Remove all dirt, dust, oil and all other contaminants.
<b>Steel</b>	<p>Immersion: SSPC-SP10 Near White with jagged profile of 2.5 – 3.5 mils.</p> <p>Non-immersion: SSPC-SP6 1.5-3.0 mils SSPC-SP2 or SP3 are suitable cleaning methods for mild environments.</p>

**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 may require surfacing. Mortar joints should be cured a min of 15 days. Prime with Novocoat SC1100 Concrete Primer.

**Previously Painted Surfaces**

Consult with ErgonArmor Technical Service Department

## MIXING & THINNING

**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

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**

3:1 ratio (A to B) by volume

**Pot Life**

30 minutes at 75°F (24°C)  
Pot life times will be less at higher temperatures.

## APPLICATION EQUIPMENT 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.

## CLEANUP & SAFETY

**Cleanup**

MEK or Acetone

**Safety**

Read and follow all caution statements on this product data sheet and on the SDS for this product. Wear protective clothing, gloves and eye protection.

**Ventilation**

When used as a tank lining or in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. User should test and monitor exposure levels to insure all personnel are below guidelines.

## PACKAGING, HANDLING & STORAGE

<b>Shelf Life</b>	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.
<b>Package Sizes &amp; Shipping Weight</b>	1 gallon kit – 13 lbs (6 kg) 4 quart case kit
<b>Storage Temperature &amp; Humidity</b>	40°F – 110°F (4°C – 43°C) 0 – 100% relative humidity
<b>Storage</b>	Store indoors. This product is not affected by excursions below these published storage temperatures, down to 10°F (-12°C), for a duration of no more than 14 days. Always inspect the product prior to use to make sure it is smooth and homogeneous when properly mixed.

## PERFORMANCE DATA

TEST METHOD	SYSTEM	RESULTS
Dry ASTM D4541	Blasted steel 1 ct	>3,000 psi
ASTM D4541 Wet 5 days 70°C water	Blasted steel 1 ct	>3,000 psi
Abrasion ASTM D 4060	1000 cycles CS17 Wheel 1000 gram load	65 mg loss 0.5 mil loss
Compressive strength ASTM C109		10,000 – 13,000 psi
Hardness ASTM D2240	Blasted steel 1 ct	84 Shore D

## CURE SCHEDULE & RECOAT WINDOW

TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT	RETURN TO SERVICE (AQUEOUS/ 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)	30 minutes	Not recommended	4 hours
DRY TO TOUCH 4 HOURS AT 77°F (25°C)			

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