



SC 3100 Series Liquid Ceramic Epoxy

SELECTION & SPECIFICATION DATA

Generic Type	Novolac Epoxy
Description	Densely cross-linked 100% solids, novolac epoxy coating with excellent chemical and temperature resistance against organic acids, caustics and petroleum based products. May be used for floors, secondary containment, fume ducts, piping, and bulk storage tanks.
Features	<ul style="list-style-type: none"> • Excellent chemical resistance to wide range of acids and caustics • 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 for hydrocarbon immersion service)
Typical Uses	<ul style="list-style-type: none"> • Floor and chemical trenches in process areas • Secondary Containment areas • Tube Sheets • Chemical Process Equipment & Pads exposed to acids • Heat Exchangers • Internal pipeline and vessel linings
Color/Part #	Light Gray (SC3110), Dark Gray (SC3120), Red (SC3140)
Finish	Gloss
Primer	Self-priming
Dry Film Thickness	2 – 3 coats at 10 – 12 mils each 3 – 4 coats at 10 – 12 mils each for high temps/severe chemical service
Solids Content	By Volume 100% +/- 1%
Theoretical Coverage Rate	1604 ft ² at 1 mil 106 ft ² at 15 mils 64 ft ² at 25 mils Allow for loss in mixing and application.
Dry Temp. Resistance	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.
Under Insulation Resistance	Continuous: 300°F (149°C) Discoloration and loss of gloss occurs above 200°F (93°C) but does not affect performance.

SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean and dry. Remove all dirt, dust, oil and all other contaminant.
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Steel	Immersion: SSPC-SP10 Near White with jagged 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 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 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%) w/ TH1710 Roller: Up to 12.8 oz/gal (10%) w/ TH1710 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

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Brush & Roller (General)	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.

CLEANUP & SAFETY

Cleanup	Use MEK or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
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Safety

Read and follow all caution statements on this product data sheet and on the MSDS for this product. Wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

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

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.

Shipping Weight (Approximate)

1 Gallon Kit – 13 lbs (6 kg)
4 Quart Case Kit

Storage Temperature & Humidity

40° – 110°F (4° – 43°C)
0 – 100% Relative Humidity

Storage

Store Indoors.
This product is not affected by excursions below these published storage temperatures, down to 10°F, 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
ASTM D-4541 Dry	Blasted Steel 1 ct.	>3,000 psi
ASTM D-4541 Wet 5 days 70°C water	Blasted Steel 1 ct.	>3,000 psi
ASTM D 4060 Abrasion	1000 cycles, CS17 Wheel 1000 gram load.	65 mg. loss 0.5 mil loss
ASTM C-109 Compressive Strength		10,000 – 13,000 psi
ASTM D-2240 Hardness	Blasted Steel 1 ct.	84 Shore D

CURE SCHEDULE & RE-COAT WINDOW

TEMPERATURE	MINIMUM RE-COAT	MAXIMUM RE-COAT	RETURN TO SERVICE (AQUEOUS/ HYDROCARBON IMMERSION)
10°C (50°F)	8 hours	24 hours	7 days
25°C (77°F)	3 hours	12 hours	24 hours
60°C (140°F)	30 minutes	Not recommended	4 hours

DRY TO TOUCH 4 hours at 25°C (77°F)

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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 material safety data sheets before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user. Please contact ErgonArmor for further information at 877.982.7667 or FAX 601-933-3381. For all Terms and Conditions of Sale see ergonarmor.com.

ORDERING INFORMATION

For additional information, prices, or to place an order, please contact your ErgonArmor sales representative. If you do not know the name of your sales representative, call 877-98ARMOR.



Division of Ergon Asphalt & Emulsions, Inc.

P.O. Box 1639, Jackson, MS 39215-1639 | 601-933-3381 Fax | 877-98ARMOR | ergonarmor.com