Novocoat SC6300 Epoxy

SELECTION & SPECIFICATION DATA

Type
Novolac Epoxy

Description
Novocoat SC6300 Epoxy is a two-component, 100% solids, novolac epoxy coating system, engineered for extreme temperature and corrosive conditions.

Features
- Excellent chemical resistance to wide range of acids and caustics
- Low permeation rate for tank lining service
- Solvent free – 100% solids

Uses
- Pipe wraps
- Secondary containment areas
- Chemical process equipment supports and pads
- Heat exchangers and tube sheets
- Internal bulk storage tank, pipe and vessel lining

Color
Clear

Finish
Gloss

Dry Film Thickness (DFT)
2 or 3 coats at 8 or 12 mils each
3 or 4 coats at 8 or 12 mils each for high temperatures or severe chemical service

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-SP 2 Hand Tool or SSPC-SP 3 Power Tool Cleaning are suitable for mild environments.

Self-priming on steel.

Previously Painted Surfaces
Consult with ErgonArmor Technical Service.

MIXING & THINNING

Ratio
3A:1B by volume

Mixing
Except for plural spray applications, do not mix partial kits. Power mix parts A and B separately then combine and power mix.

Thinning
Spray: Up to 6.5 oz/gal (5%) with Novocoat TH1710 Thinner
Brush: Up to 8 oz/gal (6%) with Novocoat TH1710 Thinner
Roller: Up to 8 oz/gal (6%) with Novocoat TH1710 Thinner

Pot Life
30 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: 0.015-inch to 0.025-inch, reversible type
Part A Fluid Line: 1/2-inch ID
Part B Fluid Line: 3/8-inch ID
Spray Line: 1/2-inch ID x 50 feet maximum
Whip: 1/4 to 3/8-inch ID x 20 feet maximum
Pump Size: 56:1 or greater
Output: 1,500 – 3,500 psi
Static Mixer: 2 x 1/2-inch ID x 12 inches (24-inch total length) behind mixing valve
Part A Temperature: 115°F – 125°F (46°C – 52°C)
Part B Temperature: 90°F – 95°F (32°C – 35°C)

Airless Spray Single Leg or Hot Pot
Pump Size: 56:1 or greater
Hose: 3/8-inch ID minimum x 50 feet maximum
Whip: 10 ft x 1/4-inch to 3/8-inch ID (minimum)
Tip Size: 0.027-inch – 0.029-inch
Output: 5600 to 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
Medium bristle brush.

Roller
Short-nap synthetic roller cover with phenolic core.

CURE SCHEDULE & RECOAT WINDOW

TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT	RETURN TO SERVICE (AQUEOUS/ HYDROCARBON IMMERSION)
50°F (10°C)	3 hours	12 hours	7 days
77°F (25°C)	1.5 hours	6 hours	7 days
140°F (60°C)	10 minutes	Not recommended	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.

Novocoat SC6300 Epoxy

PACKAGING, ESTIMATING & HANDLING

ITEM #	PRODUCT	PACKAGING
M-SC6300-1GLKT-01	Novocoat SC6300 Epoxy -Part A Resin -Part B Hardener	0.89 gal (3.4 L) Kit 6.4 lbs (2.9 kg) Pail 2 lbs (0.91 kg) Bottle

Theoretical Coverage

200 square feet per gallon at 8 mils
133 square feet per gallon at 12 mils
Allow for loss in mixing and application.

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. Do not store below 40°F (4°C) or above 110°F (43°C).

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 ASTM D4541	Blasted steel 1 coat	>3,000 psi (21 MPa)
Wet adhesion ASTM D4541 5 days 158°F (70°C) water	Blasted steel 1 coat	>2,500 psi (17 MPa)
Abrasion ASTM D4060	1000 cycles, CS17 wheel 1000 gm load	<40 mg
Compressive strength ASTM C109		11,000 – 14,000 psi (75 – 96 MPa)
Hardness ASTM D2240	Blasted steel 1 coat	84 Shore D

SERVICE TEMPERATURE

SERVICE	MAXIMUM TEMPERATURE
Dry, continuous	450°F (232°C)
Dry, non-Continuous	550°F (288°C)
Under insulation	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.

Rev 01/2022