RR&C Liquid Ceramic Epoxy ARO

SELECTION & SPECIFICATION DATA

Type
Polyamide Epoxy

Description
RR&C Liquid Ceramic Epoxy ARO is a 100% solids rapid cure epoxy polyamide coating designed to provide long term protection against abrasion, erosion and wear in dry or wet services, including exposures to water, abrasive slurries and process fluids containing suspended solids.

Features
- 100% solids, no VOCs
- Quick return to service
- Excellent immersion resistance
- Long-term wear and erosion protection
- Excellent abrasion resistance
- Meets AWWA 210 performance requirements

Uses
- Clarifiers, tanks & sumps handling nonaggressive slurries services
- Piping, pumps & valves in abrasive environments
- Chutes, hoppers & silos

Color
Blue, Gray

Finish
Textured or smooth gloss depending upon film thickness

Dry Film Thickness (DFT)
15-25 mils. Minimum 20 mils for smooth finish.

Solids Content
100% solids, no VOC's

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.

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 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 RR&C Concrete Epoxy Primer.

Previously Painted Surfaces
Consult with your Sherwin-Williams representative.

MIXING & THINNING

Ratio
3A:1B by volume for plural spray

Mixing
For single leg spray, brush, or roller, 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 Sherwin-Williams 54 reducer
Brush: Up to 16 oz/gal (12%) with Sherwin-Williams 54 reducer
Roller: Up to 16 oz/gal (12%) with Sherwin-Williams 54 reducer

Pot Life
8 hours 20 minutes at 41 °F (5°C)
2 hours at 77°F (25°C)
35 minutes at 90°F (32°C)

Pot life is shorter at higher temperatures. A larger volume of mixed material 8 hours 20 minutes at 41°F (5°C).

Cleanup
MEK or Acetone

APPLICATION GUIDELINES

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: 0.025 - 0.029 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-inch - 3/8-inch ID
Whip Length: 10 feet maximum
Pump Size: 56:1 or greater
Output Pressure: 4,500 – 6,000 psi, filter removed Static Mixer: 2 x 1/2-inch ID x 12-inch (24-inches total 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)

Brush
Medium bristle brush. Be aware of work life when using brush or roller application.

Roller
Short-nap synthetic roller cover with phenolic core.

CURE SCHEDULE & RECOAT WINDOW

TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT	RETURN-TO-SERVICE (HYDROCARBON IMMERSION)
50°F	8 hours	14 days	7 days
77°F	4 hours	14 days	72 hours
140°F	1 hour	Not Recommended	4 hours

Return-to-service varies with chemical exposure. Consult with your Sherwin-Williams representative for guidance.

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PACKAGING, HANDLING & STORAGE

ITEM#	PRODUCT	PACKAGING
LCEB-QTCS-SW	Liquid Ceramic Epoxy ARO, Blue Case includes tools	4 x 2.6-lb (1.2 kg) kits
	- Part A Resin, Blue	4 x 19 fl oz (0.57 L)
	- Part B Hardener	4 x 6.4 fl oz (0.19 L)
LCEB-1GLKT-SW	Liquid Ceramic Epoxy ARO, Blue	1-gal (3.7 L) kit
	- Part A Resin, Blue	0.72 gal (2.7 L)
	- Part B Hardener	0.28 gal (1 L)
LCEB-4GLKT-SW	Liquid Ceramic Epoxy ARO, Blue	4 -gal (15.2 L) kit
	- Part A Resin, Blue	2.9 gal (11 L)
	- Part B Hardener	1.1 gal (4.2 L)
LCEG-QTCS-SW	Liquid Ceramic Epoxy ARO, Gray Case includes tools	4 x 2.6-lb (1.2 kg) kits
	- Part A Resin, Gray	4 x 19 fl oz (0.57 L)
	- Part B Hardener	4 x 6.4 fl oz (0.19 L)
LCEG-1GLKT-SW	Liquid Ceramic Epoxy ARO, Gray	1-gal (3.7 L) kit
	- Part A Resin, Gray	0.72 gal (2.7 L)
	- Part B Hardener	0.28 gal (1 L)
LCEG-4GLKT-SW	Liquid Ceramic Epoxy ARO, Gray	4-gal (15.2 L) kit
	- Part A Resin, Gray	2.9 gal (11 L)
	- Part B Hardener	1.1 gal (4.2 L)

Theoretical Coverage Rate

106 ft²/gallon at 15 mils, 66 ft²/gallon at 24 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.

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult Sherwin-Williams.

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.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	VALUE
Dry adhesion, ASTM D4541	>2,500 psi
Wet adhesion, ASTM D4541 5 days 158°F (70°C) water	>2,500 psi
Taber abrasion ASTM D4060 1000 cycles, CS-17 wheels dry, 1 kg load	20 mg loss 1.2 mils loss 815.8 cycles per mil loss
Hardness, ASTM D2240	83 – 90 Shore

Meets performance requirements of AWWA C210.

TEMPERATURE RESISTANCE

SERVICE	MAXIMUM TEMPERATURE
Dry, continuous	220°F (104°C)
Dry, non-continuous	250°F (121°C)
Under insulation	175°F (79°C)

Temperature limitations will vary with chemical exposure. Consult with your Sherwin-Williams representative for guidance.

Discoloration and loss of gloss occur above 200°F (93°C) but do not affect performance.

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