

# RR&C Liquid Ceramic Epoxy ARO

## SELECTION & SPECIFICATION DATA

<b>Type</b>	Polyamide Epoxy
<b>Description</b>	RR&C Liquid Ceramic Epoxy ARO is a highly abrasion-resistant coating that forms a strong bond, even to damp and marginally prepared surfaces including tightly adhered rust. Suitable for use on concrete, steel, or surface rebuilding and restoration products, this low-friction overcoat resists build-up and offers long-term wear protection.
<b>Features</b>	<ul style="list-style-type: none"> <li>• 100% solids, no VOCs</li> <li>• Sag-resistant</li> <li>• Excellent immersion resistance</li> <li>• Long-term wear protection</li> <li>• Excellent abrasion resistance</li> <li>• Meets AWWA 210 performance requirements</li> </ul>
<b>Uses</b>	<ul style="list-style-type: none"> <li>• Chutes</li> <li>• Hoppers</li> <li>• Silos</li> </ul>
<b>Color</b>	Blue, Gray
<b>Finish</b>	Textured or smooth gloss depending upon film thickness
<b>Dry Film Thickness (DFT)</b>	15-25 mils. Minimum 20 mils for smooth finish.
<b>Solids Content</b>	100% solids, no VOC's

## 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 Unit (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 RR&C Concrete Epoxy Primer.
<b>Previously Painted Surfaces</b>	Consult with your Sherwin-Williams representative.

## MIXING & THINNING

<b>Ratio</b>	3A:1B by volume for plural spray
<b>Mixing</b>	For single leg spray, brush, or roller, do not mix partial kits. 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 Sherwin-Williams 54 reducer</p> <p>Brush: Up to 16 oz/gal (12%) with Sherwin-Williams 54 reducer</p> <p>Roller: Up to 16 oz/gal (12%) with Sherwin-Williams 54 reducer</p>
<b>Pot Life</b>	<p>8 hours 20 minutes at 41 °F (5°C)</p> <p>2 hours at 77°F (25°C)</p> <p>35 minutes at 90°F (32°C)</p> <p>Pot life is shorter at higher temperatures. A larger volume of mixed material 8 hours 20 minutes at 41°F (5°C).</p>
<b>Cleanup</b>	MEK or Acetone

## APPLICATION GUIDELINES

<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: 0.025 - 0.029 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 50 feet maximum</p> <p>Whip: 1/4-inch - 3/8-inch ID</p> <p>Whip Length: 10 feet maximum</p> <p>Pump Size: 56:1 or greater</p> <p>Output Pressure: 4,500 – 6,000 psi, filter removed</p> <p>Static Mixer: 2 x 1/2-inch ID x 12-inch (24-inches total 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>

<b>Brush</b>	Medium bristle brush. Be aware of work life when using brush or roller application.
<b>Roller</b>	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.

## PACKAGING, HANDLING & STORAGE

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

**Theoretical Coverage Rate** 106 ft<sup>2</sup>/gallon at 15 mils, 66 ft<sup>2</sup>/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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