

Selection & Specification Data

Generic Type	Long Oil Epoxy Ester
Description	Single-component metallic-finish maintenance coating formulated with a unique pigment system that inhibits corrosion through ion exchange technology. Self-priming, fast dry characteristics well suited for the Power, Transmission/Distribution and Bridge markets.
Features	<ul style="list-style-type: none"> ▪ Good corrosion protection and weatherability ▪ Unique method of corrosion resistance ▪ Excellent application properties ▪ Single component ▪ Pre-thinned; ready-to-apply ▪ VOC-compliant for most areas
Colors	Limited number of metallic finishes.
Finish	Low Gloss
Primers	Self-priming or Carbocoat 2900. Can also be applied over most alkyd and epoxy primers. A test patch is recommended over existing coatings.
Dry Film Thickness	2.0-3.0 mils (50-75 microns) Do not exceed 3.0 mils in a single coat
Solids Content	By Volume: 64% ± 2%
Theoretical Coverage Rate	1027 mil ft ² (25.2 m ² /l at 25 microns) Allow for loss in mixing and application
VOC Values	As supplied: 2.4 lbs/gal (290 g/l) Thinned: 16 oz. w/#45: 2.9 lbs/gal (348 g/l) These are nominal values and may vary slightly with color.
Dry Temp. Resistance	Continuous: 200°F (93°C) Non-Continuous: 250°F (121°C) Slight discoloration and loss of gloss is observed above 200°F (93°C).
Limitations	Not for immersion applications or splash and spillage of acids, alkalies or solvents.

Substrates & Surface Preparation

General	Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.
Steel	SSPC-SP2 or SP3 normally acceptable. SSPC-SP6 or SP7 for steel with extensive deterioration. Prime with Carbocoat [®] 2900 or Carbocoat 2901.
Rusted Steel	SSPC-SP2 or SP3. Prime with Carbocoat 2900 or Carbocoat 2901.
Aged Galvanized Steel	SSPC-SP1. Minimal surface preparation required. Areas of heavy pitting should be wire brushed. Prime with Carbocoat 2900 or Carbocoat 2901.
Previously Painted Surfaces	Existing paint must attain a minimum 3B rating in accordance with ASTM D3359 "X-Scribe" adhesion test.

Performance Data

Test Method	System	Results	Report #
ASTM D4541 Adhesion	Rusted Steel 1 ct. 2900 1 ct. 2901	1056 psi (Pneumatic)	08984
ASTM G26 Weatherometer	Rusted Steel 1 ct. 2900 1 ct. 2901	No blistering, rusting, and only slight chalking after 1000 hours	09285
ASTM G85 Prohesion	Rusted Steel 1 ct. 2900 1 ct. 2901	No blistering or rusting after 1000 hours (1 hour ambient temp fog / 1 hour dry at 95°F)	09285

*Test reports and additional data available upon written request.

Carbocoat® 2901

Application Equipment

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.

General guidelines:

Spray Application (General) The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional Spray Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, .052" I.D. fluid tip and appropriate air cap.

Airless Spray Pump Ratio: 30:1 (min.)*
GPM Output: 3.0 (min.)
Material Hose: 3/8" I.D. (min.)
Tip Size: .013-.017"
Output PSI: 1800-2000
Filter Size: 60 mesh
*Teflon packings are recommended and available from the pump manufacturer.

Brush & Roller (General) Multiple coats may be required to achieve desired appearance, hiding and recommended dry film thickness over rough surfaces. Avoid excessive re-brushing or re-rolling. This application may result in a streaky appearance due to orientation of the aluminum pigment. For the best aesthetic appearance, spray application is required.

Brush Use a natural bristle brush.

Roller Use a medium-nap synthetic roller cover with phenolic core.

Flow Coating Consult Carboline Technical Service for recommendations.

Mixing & Thinning

Mixing Power mix until uniform in consistency.

Thinning Normally not required. May be thinned 16 oz/gal (13%) with Thinner #45 where conditions dictate. Use of thinners other than those supplied by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.

Cleanup & Safety

Cleanup Use Thinner #2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

Safety Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation and wear gloves or use protective cream on face and hands if hypersensitive. Keep container closed when not in use.

Caution This product contains flammable solvents. Keep away from sparks and open flames. In confined areas, workmen must wear fresh airline respirators. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

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Application Conditions

Condition	Material	Surface	Ambient	Humidity
Normal	50°-90°F (10°-32°C)	55°-90°F (13°-32°C)	55°-100°F (13°-38°C)	30-90%
Minimum	35°F (2°C)	35°F (2°C)	35°F (2°C)	0%
Maximum	120°F (49°C)	165°F (74°C)	120°F (49°C)	95%

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.

Curing Schedule

Surface Temp. & 50% Relative Humidity	Dry to Touch	Dry to Handle	Dry to Topcoat
75°F (24°C)	5 Hours	24 Hours	8 Hours

These times are based on a 2.0 mil (50 micron) dry film thickness. Higher film thickness, insufficient ventilation, high humidity or cooler temperatures will require longer cure times and could result in solvent entrapment or premature failure. A **tack coat** followed by a full coat technique is **required** for best appearance and ease of application. Minimum time between tack coat and full coat is one minute to allow solvent to flash.

Packaging, Handling & Storage

Shipping Weight (Approximate) 1 Gallon 15 lbs (7 kg) 5 Gallons 74 lbs (34 kg)

Flash Point (Setaflash) 96°F (35°C)

Storage (General) Store Indoors.

Storage Temperature & Humidity 35° -110°F (2°-43°C)
0-90% Relative Humidity

Shelf Life 24 months at 75°F (24°C)

***Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.**



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