

# Carbozinc<sup>®</sup> 859

## Mixing & Thinning

<b>Ratio</b>	<u>.80 Gal. Kit</u> Part A: .35 gallons Part B: .20 gallons Zinc Filler: 14.6 lbs <u>4.00 Gal. Kit</u> Part A: 1.77 gallons Part B: 1 gallon Zinc Filler: 73 lbs.
<b>Pot Life</b>	4 Hours at 75°F (24°C) and less at higher temperatures. Pot life ends when coating loses body and begins to sag.

## 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.

<b>Spray Application (General)</b>	The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco. Keep material under mild agitation during application.
<b>Conventional Spray</b>	Agitated pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, .070" I.D. fluid tip and appropriate air cap.
<b>Airless Spray</b>	Pump Ratio: 30:1 (min.) with pail agitator* GPM Output: 3.0 (min.) Material Hose: 3/8" I.D. (min.) Tip Size: .017-.023" Output PSI: 2000-2200 Filter Size: 60 mesh *Teflon packings are recommended and available from the pump manufacturer
<b>Brush &amp; Roller (General)</b>	For small areas and touch-up only. Preferred method for large areas is spray application.

## Application Conditions

Condition	Material	Surface	Ambient	Humidity
Minimum	40 °F (4 °C)	35 °F (2 °C)	35 °F (2 °C)	0%
Maximum	90 °F (32 °C)	120 °F (49 °C)	110 °F (43 °C)	95%

Industry standards are for the substrate temperatures to be 5°F (3°C) above the dew point. 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 which are as follows: material 60°F-85°F (16°C-29°C), surface & ambient 60°F-90°F (16°C-32°C) and humidity 0% - 90%.

## Curing Schedule

Surface Temp.*	Dry to Handle	Dry to Recoat & Topcoat w/ other finishes
35 °F (2 °C)	8 Hours	6 Hours
50 °F (10 °C)	5 Hours	2 Hours
75 °F (24 °C)	2 Hours	30.0 Minutes
100 °F (38 °C)	1 Hours	30.0 Minutes

\*These times are based on a 3.0 mil (75 micron) dry film thickness. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure.

The general requirement is a 24 hour cure for Carbolite epoxy intumescent applications. Maximum recoat time is unlimited. Must have a clean, dry surface free of chalk, zinc salts, etc. per typical good painting practices. Consult Carbolite Technical Service for specific information.

## Cleanup & Safety

<b>Cleanup</b>	Use Thinner 2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
<b>Safety</b>	Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.
<b>Ventilation</b>	When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. In addition to ensuring proper ventilation, appropriate respirators must be used by all application personnel. This product contains flammable solvents. Keep away from sparks and open flames. 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.

## Packaging, Handling & Storage

<b>Shelf Life</b>	Part A: 36 months at 75°F (24°C) Part B: 24 months at 75°F (24°C) Part C: 24 months at 75°F (24°C)  *Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
<b>Shipping Weight (Approximate)</b>	.80 Gallon Kit - 22 lbs (10 kg) 4.00 Gallon Kit - 105 lbs (48 kg)
<b>Storage Temperature &amp; Humidity</b>	40° - 120°F (4°-49°C) Store indoors Can be stored down to 20°F (-7°C) for no longer than 30 days 0-100% Relative Humidity
<b>Flash Point (Setaflash)</b>	Part A: 49°F (9°C) Part B: 38°F (3°C) Zinc Filler: NA
<b>Storage</b>	Store Indoors



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