

## Selection & Specification Data

<b>Generic Type</b>	Alkyd Enamel
<b>Description</b>	A high solids, quick-dry, general purpose air dry enamel that is used as a self-priming finish coat. Carbocoat 8215 VOC has exceptional application characteristics, fast dry properties and very good corrosion protection as a direct to metal coatings. Is used as an OEM finish for a variety of applications. It is also recommended for light to moderate industrial use for new construction or maintenance. It meets the 340 g/l VOC limit and has very low HAP's at 0.6 lbs/solid gal.
<b>Features</b>	<ul style="list-style-type: none"> <li>▪ Smooth, attractive, gloss finish</li> <li>▪ Direct-to-metal application if desired.</li> <li>▪ Good weatherability, gloss and color retention</li> <li>▪ Contains corrosion inhibitor</li> <li>▪ Excellent application characteristics.</li> <li>▪ Quick dry to handle times</li> <li>▪ Good flexibility</li> <li>▪ Impact and abrasion resistant</li> <li>▪ VOC-compliant for most areas</li> <li>▪ HAP's = 0.6 lbs/solid gallon</li> </ul>
<b>Colors</b>	Available in Rapid Tint Service; See Carboline Color Chart
<b>Finish</b>	Gloss
<b>Dry Film Thickness</b>	2.0-3.0 mils (50-75 microns) direct-to-metal in a single coat. Do not exceed 4.0 mils (100 microns) in a single coat.
<b>Solids Content</b>	By Volume: 53% ± 2%
<b>Theoretical Coverage Rate</b>	850 mil ft <sup>2</sup> (21.8 m <sup>2</sup> /l at 25 microns) 283 sq. ft. at 3 mils (7.26 sq. m/l at 75 microns) Allow for loss in mixing and application
<b>VOC Values</b>	As supplied: 2.8 lbs./gal (336 g/l) Thinned 5% with Thinner 242E: 2.8 lbs./gal (336 g/l) These are nominal values and may vary slightly with color.
<b>Dry Temp. Resistance</b>	Continuous: 200°F (93°C) Non-Continuous: 250°F (121°C) Slight discoloration and loss of gloss is observed above 200°F (66°C).
<b>Limitations</b>	Not for immersion applications or splash and spillage of acids, alkalies or solvents.

## Substrates & Surface Preparation

<b>General</b>	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.
<b>Steel Direct-to-metal</b>	Minimum SSPC-SP3. If abrasive blasted, profile should not exceed 2.0 mils (50 microns).
<b>Phosphatized Steel</b>	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.

# Carbocoat 8215 VOC

## 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: .015-.019"  
Output PSI: 1800-2700  
Filter Size: 60 mesh  
Teflon packings are recommended and available from the pump manufacturer.

**Brush & Roller (General)** Avoid excessive re-brushing or re-rolling.

**Brush** Use a medium bristle brush.

**Roller** Use a short-nap roller.

## Mixing & Thinning

**Mixing** Power mix until uniform in consistency.

**Thinning** Normally not required. Up to 5% with Thinner 242E.

Use of thinners other than those supplied or recommended by Carboline may adversely affect product performance and void product warranty, whether expressed or implied.

## Cleanup & Safety

**Cleanup** Use Thinner #242E 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.

**Ventilation** 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. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved respirator.

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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)	120°F (49°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 Hard
75°F (24°C)	30 Minutes	2 Hours	24 Hours

These times are based on a 3.0 mil (75 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. Adhesion develops over a period of time. Wait 30 days before doing adhesion testing.

## Packaging, Handling & Storage

**Shipping Weight (Approximate)** 1 Gallon 12 lbs. (5.5 kg) 5 Gallons 60 lbs. (27 kg) 55 Gallons 600 lbs. (272 kg)

**Flash Point (Setflash)** 40°F (4.4°C)

**Storage (General)** Store Indoors

**Storage Temperature & Humidity** 35° -110°F (2°-43°C)  
0-100% Relative Humidity

**Shelf Life** Min. 12 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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