

## **SELECTION & SPECIFICATION DATA**

Generic Type | Alkyd Enamel

# Description

A general purpose air dry enamel that can be used as a self-priming direct to metal (DTM) finish coat. This product has good application characteristics and good corrosion resistance. It can be used for light to moderate industrial and marine service for both maintenance and new construction projects. It can also be used as an OEM finish for a variety of applications.

- · Smooth, attractive, high gloss finish
- · Direct-to-metal application if desired

#### **Features**

- · Good weatherability, color and gloss retention
- Good corrosion resistance
- · Good application characteristics
- · Good durability

Color

Available in package colors C900 Black, 1864 White, 5555 Red, and 6666 Yellow. Other colors may be available upon request. Refer to Carboline Color Chart.

Finish | High Gloss

**Primer** 

Self priming and compatible with Carbocoat series alkyds, Carboguard, and Carbomastic series epoxies.

Thistenasa

1.5 - 2 mils (38 - 51 microns) per coat

**Dry Film Thickness** 

Do not exceed 3 mils (75 microns) per coat.

Solids Content | By Volume 43% +/- 2%

Theoretical Coverage Rate 690 ft²/gal at 1.0 mils (16.9 m²/l at 25 microns) 460 ft²/gal at 1.5 mils (11.3 m²/l at 38 microns) 345 ft²/gal at 2.0 mils (8.5 m²/l at 50 microns) Allow for loss in mixing and application.

**As Supplied**: 3.75 lb/gal (449 g/L)

**VOC Values** 

As supplied: 3.75 lbs./gal (449 g/l)

These are nominal values and may vary slightly with color.

Continuous: 200°F (93°C)

Dry Temp. Resistance

Non-Continuous: 250°F (121°C)

Discoloration and loss of gloss is observed at elevated temperatures.

**Limitations** | Not for immersion applications or splash and spillage of acids, alkalies or solvents.

## SUBSTRATES & SURFACE PREPARATION

General | Surfaces must be clean and dry. Clean to remove all contaminants in accordance with SSPC-SP 1.

#### **Direct-to-Metal**

Steel

Minimum Hand Tool Clean in accordance with SSPC-SP2. For optimum performance abrasive blast clean to a minimum of Commercial Blast Clean in accordance with NACE No. 3/SSPC-SP 6 with 1.0 to 1.5 mils (25 to 38 microns) anchor profile. Two coats of finish or one coat of primer and one coat of finish are recommended.





#### SUBSTRATES & SURFACE PREPARATION

**Galvanized Steel** Not recommended over galvanized metal or zinc-rich coatings.

Phosphatized Steel | Surfaces must be clean and dry. Clean to remove all contaminants in accordance with SSPC-SP 1.

# MIXING & THINNING

**Mixing** Power mix until uniform in consistency and take precautions to prevent entraining air.

Thinning

Not normally required. May be thinned up to 13 oz/gal (10%) with Thinner 225E. Thinners other than those recommended and supplied by Carboline may adversely affect product performance and will void product warranty, whether expressed or implied.

## 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.

Spray Application (General)

The following spray equipment has been found suitable and is available from spray equipment manufacturers.

**Conventional Spray** 

Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, 0.052" I.D. fluid tip and appropriate air cap.

Electric or Gas Airless Sprayers: Minimum 0.5 gpm with a minimum 2,800 psi.

Air Driven Pump Ratio: 30:1 \* GPM Output: 3.0 (min.) Material Hose: 1/4" I.D. (min.)

**Airless Spray** 

Tip Size: 0.013-0.017" Output PSI: 1,800-2,800

Output PSI: 1,800-2,800 Filter Size: 60 mesh

\*PTFE packings are recommended and available from the pump manufacturer.

Brush & Roller (General)

Avoid excessive brushing and rolling.

**Brush** Use a good quality brush designed for use with solvent-borne coatings.

**Roller** Use a short-nap roller designed for use with solvent-borne coatings.

# **APPLICATION CONDITIONS**

Condition	Material	Surface	Ambient	Humidity
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**

S	urface Temp.	Dry Hard	Dry to Handle	Dry to Touch
	75°F (24°C)	24 Hours	9 Hours	90 Minutes

These times are based on 2.0 mils (50 microns) dry film thickness and colors made with dry grind pigments. Higher film thickness, insufficient ventilation, high humidity, cooler temperatures, and/or colors made with RTS tint colorants may require longer cure times. Excessive film build or top coating too soon could result in solvent entrapment or premature failure. Adhesion develops and improves over time.

# **CLEANUP & SAFETY**

Cleanup

Use Thinner 225E, Thinner 10, Thinner 45, Acetone, Xylene, etc. 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 SDS. Employ normal workmanlike safety precautions. Keep container closed when not in use.

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.

Caution

This product contains flammable solvents. Keep away from sparks and open flames. In confined areas workers 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, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

## PACKAGING, HANDLING & STORAGE

Shelf Life | 36 Months

Storage Temperature & | 35° -110°F (2°-43°C)

**Humidity** 0-100% Relative Humidity

**Storage** | Store Indoors.

Shipping Weight | 1 Gallon - 10 lbs. (4.5 kg) (Approximate) | 5 Gallons - 51 lbs. (23 kg)

Flash Point (Setaflash) | 98°F (37°C). Flash point may vary slightly with color.

# Carbocoat<sup>®</sup> 75





#### WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. Carboline warrants our products to be free of manufacturing defects in accord with applicable Carboline quality control procedures. THIS WARRANTY IS NOT VALID WHEN THE PRODUCT IS NOT: (1) APPLIED IN ACCORDANCE WITH CARBOLINE'S SPECIFICATIONS, AND/OR (2) PROPERLY STORED, CURED, AND USED UNDER NORMAL OPERATING CONDITIONS. Carboline assumes no responsibility for coverage, performance, injuries, or damages resulting from use of the product. If this product is found not to perform as specified upon inspection by a Carboline representative during the warranty period, Carboline's sole obligation, if any, is to replace the Carboline product(s) proven to be defective or refund the purchase price thereof, at Carboline's sole option. Carboline shall not be liable for any other losses or damages. This warranty excludes (1) labor and costs of labor for the application or removal of any product, and (2) any incidental or consequential damages, whether based on breach of express or implied warranty, negligence, strict liability or any other legal theory. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated. The whole text of this Product Data Sheet, as well as the documents derived from it, have been written in English, and for legal purposes the English version shall prevail.