

Selection & Specification Data

Generic Type Alkyd Enamel.

Description A high solids, general purpose air dry enamel

that is used as a protective finish coat and formulated to meet the needs requirements of the Rail Industry. Carbocoat 59 may be applied direct to metal or as a

topcoat over Carbocoat 55.

Features Smooth, attractive, high gloss finish.

Direct-to-metal application if desired.

Very good weatherability, gloss and color retention.

Outstanding application characteristics.

Economical, fast dry.

Good flexibility.

Impact and abrasion resistant.

VOC-compliant for most areas.

Colors Gray, black, white and other colors available

on request.

Finish Gloss

Primers Self-priming or Carbocoat 55. Can also be

> applied over most alkyd, epoxy, polyurethane or others as recommended. A test patch is

recommended over existing coatings.

Dry Film 3.0-4.0 mils (75-100 microns) direct-to-metal

Thickness in a single coat.

Do not exceed 4.0 mils (100 microns) in a

single coat.

Solids Content By Volume: $50\% \pm 2\%$

800 mil ft² (21 m²/l at 25 microns) **Theoretical**

Coverage Rate 266 sq. ft. at 3 mils

(7 sq. m/l at 75 microns)

Allow for loss in mixing and application

VOC Values As supplied: 3.4 lbs./gal (408 g/l)

Thinned:

Dry Temp. 200°F (66°C) Continuous: Resistance Non-Continuous: 250°F (82°C)

Slight discoloration and loss of gloss is

observed above 200°F (66°C).

Limitations Not for immersion applications or splash and

spillage of acids, alkalies or solvents.

Substrates & Surface Preparation

Surfaces must be clean and dry. Employ General

adequate methods to remove dirt, dust, oil and all other contaminants that could interfere

with adhesion of the coating.

Steel SSPC-SP6 Blast Profile should not exceed

Direct-to-metal 3.0 mils (75 microns).

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 The following spray equipment has been **Application** found suitable and is available from

(General) manufacturers such as Binks, DeVilbiss and

Graco.

Conventional Pressure pot equipped with dual regulators, Spray

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. May be thinned 6

oz/gal (5%) w/ Carbocoat Thinner in high temperature conditions to reduce dry spray

and lap marks.

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

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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.

Ventilation When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system

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.

Application Conditions

Condition	Material	Surface	Ambient	Humidity	
Normal	50°-90°F	55°-90°F	55°-100°F	30-90%	
	(10°-32°C)	(13°-32°C)	(13°-38°C)		
Minimum	35°F	35°F	35°F	0%	
	(2°C)	(2°C)	(2°C)	0%	
Maximum	120°F	165°F	120°F	95%	
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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
75°F (24°C)	2 Hours	4-6 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)
 5 Gallon (55 lbs. (25 kg))
 55 Gallons (600 lbs. (275 kg))

Flash Point (Setaflash) 45°F (7°C)

Storage (General) Store Indoors.

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





350 Hanley Industrial Court, St. Louis, MO 63144-1599 314/644-1000 314/644-4617 (fax) www.carboline.com

