

Selection & Specification Data

Generic Type Alkyd Enamel

Description A quick-dry, general purpose air dry enamel

that is an easy-to-use finish coat. Carbocoat 45 has exceptional application characteristics and fast dry properties. When used with an appropriate primer provides very good protection of steel substrates in mild to moderate exposures. It can be used for both

new construction or maintenance.

Features • Smooth, attractive, gloss finish

Good weatherability, gloss and color

retention

Excellent application characteristics; spray,

brush, or roll

Quick dry to handle times

VOC-compliant for most areas

Colors Available in Rapid Tint Service; See Carboline

Color Chart

Finish Gloss

Dry Film 2-3 mils (50-75 microns)

Thickness Do not exceed 4.0 mils (100 microns) in a

single coat.

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

Theoretical 802 mil ft² (19.7 m²/l at 25 microns)

Coverage Rate 262 sq. ft. at 3 mils

(6.5 sq. m/l at 75 microns)

Allow for loss in mixing and application

VOC Values As supplied: 3.5 lbs./gal (419 g/l)

Thinned:

5 oz w/ Thinner 10: 3.75 lbs/gal (449 g/l)

These are nominal values and may vary slightly

with color.

Dry Temp.Continuous:200°F (93°C)ResistanceNon-Continuous:250°F (121°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

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 Apply over properly primed steel

Carbocoat 45

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.) .015-.019" Tip Size: Output PSI: 1800-2700 Filter Size: 60 mesh

Teflon packings are recommended and available

from the pump manufacturer.

Brush & Roller (General) Brush

Avoid excessive re-brushing or re-rolling.

Use a medium bristle brush.

Roller Use a short-nap roller.

Mixing & Thinning

Power mix until uniform in consistency. Mixing

Normally not required. May be thinned up to 5 Thinning

oz per gallon (4%) with Thinner 10.

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

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

applicable regulations.

Read and follow all caution statements on this Safety 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.

This product contains flammable solvents. Keep Caution

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.

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	4 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 1 Gallon 5 Gallons (Approximate) 11 lbs. (5.0 kg) 55 lbs. (25.2 kg)

Flash Point (Setaflash) 77°F (25°C)

Storage (General) Store Indoors

Storage Temperature 40° -110°F (4°-43°C) & Humidity 0-100% Relative Humidity

Shelf Life Min. 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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