

Selection & Specification Data

Generic Type Single Component Phenolic Modified

Alkyd

Description

Heavy-duty primer formulated to provide long term protection of structural steel. It provides excellent adhesion and can be welded through

to yield sound welds.

Features

Good for extended exposure

demands

Ability to be welded through

Heavy-metal free

VOC compliant for most areas

Color

Red (0500); Gray (0700)

Finish

Flat

Topcoats

Acrylics, Alkyds (May also be topcoated with catalyzed epoxies and urethanes. Call for specific

recommendations.)

Dry Film Thickness 2.0 - 3.0 mils (50-75 microns) per coat Don't exceed 3.0 mils (75 microns) in a

single coat.

Solids Content By Volume: $52\% \pm 2\%$

Theoretical Coverage Rate 850 mil ft² (21.2 m²/l at 25 microns) Allow for loss in mixing and application.

VOC Values

As supplied: 3.4 lbs./gal (407 g/l)

Thinned:

6 oz/gal w/ #10 : 3.7 lbs./gal (443 g/l) These are nominal values and may

vary slightly with color.

Dry Temp. Resistance Continuous: 200°F (93°C)
Non-Continuous: 250°F (121°C)
Discoloration and loss of gloss is

observed above 200°F (93°C).

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

SSPC-SP6 with a 1.0-2.0 mil (25-50 micron) surface profile for maximum protection. SSPC-SP2 or SP3 as

minimum requirement.

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" fluid tip and appropriate

air cap.

Airless Spray

Pump Ratio: 30:1 (minimum)*
GPM Output: 3.0 (minimum)
Material Hose: 3/8" I.D. (minimum)
Tip Size: .013" - .017"

Output PSI: 2000-2300
Filter Size: 60 mesh

*Teflon packings are recommended and available from the pump

manufacturer.

Brush & Roller (General) Multiple coats may be required to achieve desired appearance, hiding and recommended dry film thickness.

Avoid excessive rebrushing o

rerolling.

Brush Use a natural bristle brush.

Roller Use a short-nap synthetic roller cover

with phenolic core.

Carbocoat® 150

Universal Primer

Mixing & Thinning

Mixing

Power mix until uniform in consistency.

Thinning

Normally not required but may thin as follows: Spray, brush or roller may be thinned up to 5 oz/gal (5%) 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

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. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Ventilation

When used in enclosed areas, thorough air circulation must be used during and after application until the is cured. The ventilation coating should be capable system preventing the solvent 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. 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 nonsparking shoes.

Application Conditions

Condition	Material	Surface	Ambient	Humidity
Normal	50-95°F (10°-35°C)	55-90°F (13°-32°C)	55-100°F (13°-38°C)	30-70%
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)	90%

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	Tack Free	Dry to Topcoat	
			With itself or other alkyds	With epoxies or urethanes
35°F (2°C)	60 Minutes	4 Hours	12 Hours	16 Hours
55°F (13°C)	35 Minutes	90 minutes	5 Hours	12 Hours
75°F (24°C)	10 Minutes	45 Minutes	2 Hours	8 Hours

These times are based on a 2.0 mil (50 microns) 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.

Packaging, Handling & Storage

Shipping Weight 5 Gallon 55 Gallon (Approximate) 66 lbs. (30 kg) 730 lbs. (331 kg)

Flash Point 83°F 28°C) (Setaflash)

Storage 35° - 110°F (2°- 43°C) Store

Temperature indoors

& Humidity 0-100% Relative Humidity

Shelf Life 24 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

