

SELECTION & SPECIFICATION DATA

Generic Type	Single Component Corrosion Inhibitive Alkyd Primer
Description	Zero HAP's, fast dry corrosion inhibitive universal alkyd primer. May be top coated with a variety of finishes, including alkyd, epoxy, polyurethanes, as well as conventional coatings. Can be used for interior or exterior service as a primer/finish for atmospheric protection. Applications on iron, steel and most other metals.
Features	<ul style="list-style-type: none"> • Excellent for interior/exterior exposure • Primer/Finish • Zero HAP's • Universal Primer • Viscosity: 65-70 KU's • Good for extended exposure demands • VOC compliant for most areas • Low odor • Meets the requirements of the Steel Door Institute (ANSI/SDI A250.10)
Color	Red (0500); Gray (0700); White (A881)
Finish	Flat
Dry Film Thickness	2 - 3 mils (51 - 76 microns) per coat Don't exceed 3.0 mils (75 microns) in a single coat. Welding is best achieved when thicknesses do not exceed 1 mil (25 microns).
Solids Content	By Volume 56% +/- 2%
Theoretical Coverage Rate	898 ft ² /gal at 1.0 mils (22.0 m ² /l at 25 microns) 449 ft ² /gal at 2.0 mils (11.0 m ² /l at 50 microns) 299 ft ² /gal at 3.0 mils (7.3 m ² /l at 75 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : 2.8 lbs./gal (335 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 is observed above 200 F (93 C).
Topcoats	Carbocoat 8239 should not be used to topcoat zinc based primers or galvanized steel. May also be topcoated with catalyzed epoxies and urethanes. Call for specific recommendations.*
Application	Fabrication shops, Structural steel, Automotive Facilities, OEM

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.
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SUBSTRATES & SURFACE PREPARATION

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.

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.

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 manufacturers such as Wiwa or equivalent.

Conventional Spray | Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, 0.052" 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: 0.013" - 0.017"
Output PSI: 2000-2300
Filter Size: 60 mesh
*PTFE 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 re-brushing or re-rolling.

Brush | Use a natural bristle brush.

Roller | Use a short-nap synthetic roller cover with phenolic core.

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)	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.	Dry to Handle	Dry to Topcoat	Dry to Touch	Dry to Topcoat w/ epoxies or urethanes
70°F (21°C)	45 Minutes	30 Minutes	10 Minutes	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.

CLEANUP & SAFETY

Cleanup	Use Xylene or Naptha. 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 for this product. Employ normal workmanlike safety precautions. 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 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. 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	24 months at 75°F (24°C) *Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
Storage Temperature & Humidity	35° - 110°F (2° - 43°C) 0-100% Relative Humidity
Storage	Store Indoors.
Shipping Weight (Approximate)	5 Gallon - 66 lbs. (30 kg) 55 Gallon - 730 lbs. (331 kg)
Flash Point (Setaflash)	45°F 7.2°C

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 Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. 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.