

SELECTION & SPECIFICATION DATA

Generic Type	Single Component Universal Alkyd Primer
Description	This zero HAPs, fast-drying, corrosion resistant universal alkyd primer can be top-coated with a variety of finishes, including acrylic, alkyd, epoxy, and polyurethane coatings. Suitable for both interior use and exterior environments when used as part of a system, it is ideal for priming iron, steel, and many other metals.
Features	<ul style="list-style-type: none"> • Corrosion resistant, universal primer that accepts solvent borne topcoats • Approved for MPI #76 • Approved for MPI #79 • Fast dry to handle and topcoat • Zero HAP's • 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	<p>2 - 3 mils (51 - 76 microns) per coat</p> <p>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).</p>
Solids Content	By Volume 56% +/- 2%
Theoretical Coverage Rate	<p>898 ft²/gal at 1.0 mils (22.0 m²/l at 25 microns)</p> <p>449 ft²/gal at 2.0 mils (11.0 m²/l at 50 microns)</p> <p>299 ft²/gal at 3.0 mils (7.3 m²/l at 75 microns)</p> <p>Allow for loss in mixing and application.</p>
VOC Values	<p>As Supplied : 2.8 lbs./gal (335 g/l)</p> <p>These are nominal values and may vary slightly with color.</p>
Dry Temp. Resistance	<p>Continuous: 200°F (93°C)</p> <p>Non-Continuous: 250°F (121°C)</p> <p>Discoloration is observed above 200 F (93 C).</p>
Topcoats	<p>Carbocoat 8239 should not be used to topcoat zinc based primers or galvanized steel.</p> <p>May also be topcoated with catalyzed epoxies and urethanes. Call for specific recommendations.*</p>
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.
	When using under fireproofing products, defer to the primer surface preparation requirements in the product data sheet of the fireproofing product.

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. Recoat intervals may vary from those listed above when using under intumescent fireproofing products. Consult Carboline Technical Service for recommended cure times before applying Carboline intumescent products.

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 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.