

SELECTION & SPECIFICATION DATA

Generic Type	Water reducible alkyd primer
Description	This fast dry water reducible alkyd primer is designed for spray, brush or roller application for metallic surfaces and may be used as a universal primer. It offers ease of application, superior adhesion, retention, and extreme flexibility. It is easy to apply and offers superior sag resistance and sheen uniformity.
Features	<ul style="list-style-type: none"> • Fast-dry • Corrosion protection • Contains zinc phosphate (red only) • Flash rust resistant • Surface tolerant • Low odor • Low-VOC
Color	Red (0500), Grey (0700) Red color contains zinc phosphate.
Gloss	Flat
Wet Film Thickness	4-6 mils
Dry Film Thickness	1.5 - 2.5 mils (38 - 64 microns) per coat
Solids Content	By Volume 32% +/- 2%
Theoretical Coverage Rate	513 ft ² /gal at 1.0 mils (12.6 m ² /l at 25 microns) 342 ft ² /gal at 1.5 mils (8.4 m ² /l at 38 microns) 205 ft ² /gal at 2.5 mils (5.0 m ² /l at 62 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : 1.52lbs./gal (165 g/l) As Supplied : 2.73 lb./gal (327 g/l) EPA Method 24
Dry Temp. Resistance	Continuous: 200°F (93°C) Non-Continuous: 250°F (121°C)
Limitations	<ul style="list-style-type: none"> • Primer must be thoroughly dry before applying solvent based topcoats. • Excess film thickness and high humidity will retard dry times. • Not for use on for use on galvanized, galvaneal or zinc rich surfaces.
Topcoats	Alkyds, Acrylics, Epoxies, Urethanes
Application	Metal fabrication, utility trailers. structural steel supports and beams, industrial machinery, racking, and shelving.
Pot Life	Unlimited

SUBSTRATES & SURFACE PREPARATION

Galvanized Steel | NOT RECOMMENDED FOR GALVANIZED SURFACES

Carbocoat[®] 8287 WR

PRODUCT DATA SHEET



SUBSTRATES & SURFACE PREPARATION

Aluminum | Remove oils and dirt by solvent cleaning or with Carboline Surface Prep Cleaner #3 or other suitable cleaner, followed by a thorough water rinsing. Apply a test patch of Carbocoat 8287 WR. Allow to dry and cure at least one week before testing adhesion per ASTM D 3359.

Ferrous Metal | The surface should be thoroughly cleaned to remove dirt, grease, chalk and air pollution deposits, ideally by power washing. For aggressive environments, in order to obtain adhesion, a Commercial Blast (SSPC-SP6), or Near White Metal Blast (SSPC-SP10) is recommended. For noncorrosive environments, depending on the condition of the steel, the surface preparation shall be either SSPC-SP2 Hand Tool Cleaning, SSPC-SP3 Power Tool Cleaning, or SSPC-SP11 Power Tool Cleaning, or SSPC-SP6 Commercial Blast Cleaning. Follow the SSPC guidelines for removing mill scale, rust, loose paint, and other detrimental foreign matter.

PERFORMANCE DATA

Test Method	System	Results
ASTM D4541: Pneumatic Pull-off Adhesion	Carbocoat 8287 WR	1100 psi

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 potable water.

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.

HVLP | Spray equipment: HVLP Pressure pot: 3/8" fluid Fluid pressure: 8 – 10** ATOMIZING AIR: 55 - 60 (psi) Tip: FF

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 | High quality synthetic bristle brush

Roller | 3/8" nap, solvent resistant core

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	50°F (10°C)	50°F (10°C)	0%
Maximum	110°F (43°C)	110°F (43°C)	110°F (43°C)	95%
Optimum	70°F (21°C)	70°F (21°C)	70°F (21°C)	50%

CURING SCHEDULE

Surface Temp.	Dry to Handle	Dry to Recoat/Topcoat with Water Base	Dry to Topcoat with Solvent Base	Dry to Touch
70°F (21°C)	30 Minutes	30 Minutes	8 Hours	15 Minutes

CLEANUP & SAFETY

Cleanup | Clean up with potable water

Safety | Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions.

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.

PACKAGING, HANDLING & STORAGE

Packaging | 1, 5, or 55 gal

Shelf Life | 12 months

Storage Temperature & Humidity | 50° - 110°F (2° - 43°C) 0-100% Relative Humidity

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

Flash Point (Setaflash) | 212°F

WARRANTY

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