Galoseal® WB

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	Waterborne Acrylic
Description	Water-based acrylic primer used to promote adhesion over galvanized and other nonferrous metal substrates. Unique formula has very low VOC and can be top coated with two-component solvented epoxies and polyurethanes.
Features	• Single component • Low odor, low VOC • Contains no heavy metals or mineral acids • Extended recoat time • Accepts two-component solvented coatings • Fast dry to topcoat • Approved MPI #134
Color	Buff-yellow only
Finish	Flat
Primer	Self-priming, typically used over galvanized metal.
Dry Film Thickness	0.5 - 1 mils (13 - 25 microns) per coat
Solids Content	By Volume 31% +/- 2%
Theoretical Coverage Rate	994 ft²/gal at 0.5 mils (24.4 m²/l at 12 microns) 497 ft²/gal at 1.0 mils (12.2 m²/l at 25 microns) Allow for loss in mixing and application.
VOC Values	**As Supplied** : 0.82 lbs/gal (99 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) Slight discoloration and loss of gloss is observed above 200°F (93°C)

SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean and dry. Remove all contaminants in accordance with SSPC-SP 1.
Steel	Clean to remove contaminants in accordance with SSPC-SP 1.
Galvanized Steel	Clean to remove all contaminants in accordance with SSPC-SP 1. Test to determine if any clear coats, chromate treatments, passivators, etc. are present in accordance with SSPC-SP 16. If present they must be removed per SSPC-SP 16. If none are present then clean the test areas per SSPC-SP 1.
Aluminum	Clean to remove contaminants in accordance with SSPC-SP 1 and SSPC-SP 16.

MIXING & THINNING

Mixing	Power mix until uniform in consistency. Avoid excessive air entrapment.

MIXING & THINNING

Thinning	Not required. Material is ready to be applied as supplied. 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 equipment manufacturers.
Conventional Spray	Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, .043" 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.) Tip Size: 0.013 - 0.015" Output PSI: 1500 - 1800 Filter Size: 60 mesh *PTFE packings are recommended and available from the pump manufacturer.
Brush & Roller (General)	Normally for touch-up only. Avoid excessive re-brushing or re-rolling.
Brush	Use a synthetic bristle brush.
Roller	Use a short-nap synthetic roller cover with phenolic core.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	50°F (10°C)	50°F (10°C)	0%
Maximum	100°F (38°C)	130°F (54°C)	120°F (49°C)	85%

Do not apply when the surface temperature is less than 5°F (3°C) above the dew point. Water-based products are sensitive to moisture during cure. Protect from rain for 72 hours at 75°F (24°C). **Do not apply if temperatures are expected to drop below 50°F (10°C) within 24 hours of application.** 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 Touch	Dry to Recoat & Topcoat w/ other finishes	Dry to Topcoat Maximum
50°F (10°C)	1 Hour	6 Hours	9 Days
75°F (24°C)	30 Minutes	1 Hour	7 Days
90°F (32°C)	15 Minutes	30 Minutes	2 Days

These times are based on 50% relative humidity and 1.0 mil (25 micron) dry film thickness. Higher film thickness, insufficient ventilation, high humidity or cooler temperatures will require longer cure times. Film must appear (feel) dry before topcoating. High humidity, high film thickness, insufficient ventilation or cooler temperatures will lengthen the Dry to Touch and Dry to Topcoat times due to slower water evaporation rate. Waterborne acrylics are sensitive to moisture during early cure and are susceptible to handling damage.

CLEANUP & SAFETY

Cleanup	Use clean water or warm, soapy water. Flush equipment with appropriate solvents before using the equipment for solvented topcoats. 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. Use adequate ventilation and wear gloves or use protective cream on face and hands if hypersensitive. Keep container closed when not in use.

PACKAGING, HANDLING & STORAGE

Shelf Life	12 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	40° -110°F (4°-43°C) 0-90% Relative Humidity
Storage	Store Indoors. KEEP FROM FREEZING.
Shipping Weight (Approximate)	1 Gallon - 12 lbs (5 kg) 5 Gallons - 55 lbs (25 kg)
Flash Point (Setaflash)	>200°F (93°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.