

SELECTION & SPECIFICATION DATA

Generic Type	Self-curing, water-based inorganic zinc primer.
Description	Carboweld 11 WB is a water-based inorganic zinc rich primer that protects steel galvanically, eliminating subfilm corrosion. It meets VOC regulations while providing the proven performance of silicate zinc rich technology. It may be used as a weldable pre-construction primer or as a primer under many different types of topcoats.
Features	<ul style="list-style-type: none"> • Excellent corrosion protection • High zinc loading per square foot • Zero VOC • Good resistance to salting • Fast curing, quick handling • Excellent application characteristics (less likely to pump packing or tip plug)
Color	Gray (0700) standard. Green (0300) and Red (0500) available on special order.
Finish	Flat
Dry Film Thickness	0.75 - 1.25 mils (19 - 32 microns) per coat per coat with 50 lbs. zinc for weld-ability applications.
Total Zinc Dust in Dry Film	By Weight: 77% +/- 1%
Solids Content	By Weight 73%
VOC Values	As Supplied : 0
Limitations	Do not recoat/topcoat with itself.
Topcoats	May be coated with Acrylics depending on exposure and need. (Mist coats over the CW 11 WB may be required to prevent topcoat bubbling.)
Inorganic Zinc Theoretical Coverage Rate	814 square feet at 1 mil dry film thickness (20.2 square meters/liter) Always allow for waste in mixing and application.

SUBSTRATES & SURFACE PREPARATION

General	Remove any oil or grease from the surface to be coated with clean rags soaked in Carboline Thinner #2 or Surface Cleaner #3 (refer to Surface Cleaner #3 instructions) in accordance with SSPC-SP1.
Steel	Abrasive blast to a minimum commercial finish in accordance with SSPC-SP6 with a minimum 1 mil (25 microns) blast profile. An angular profile will provide maximum adhesion.

MIXING & THINNING

Mixing	<p>Power mix base, then combine as follows: Tip: Sifting zinc through a window screen will aid in the mixing process by breaking up or catching dry zinc lumps.</p> <p>4.34 Gal Kit Part A: 3.5 gallons Zinc Filler: 50 lbs.</p> <p>0.86 Gal Kit Part A: 0.70 Gal Zinc Filler: 10 lbs.</p> <p>Note: Part A liquid base component is labeled Carbozinc 11 WB/ Carboweld 11 WB Base.</p>
Thinning	<p>Not normally required. May be thinned up to 5% with clean potable water.</p>
Pot Life	<p>8 hours at 75°F (24°C) and less at higher. Pot life ends when the coating becomes too thick to use.</p>

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) | Remove any oil or grease from the surface to be coated with clean rags soaked in Carboline Thinner #2 or Surface Cleaner #3 (refer to Surface Cleaner #3 instructions) in accordance with SSPC-SP1.

Conventional Spray | Conventional spray is the preferred method of application for Carboweld 11 WB. Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, with a maximum length of 50', 0.070" I.D. fluid tip and appropriate air cap.

Airless Spray | Airless spray is acceptable if some spray tails can be tolerated. Carboweld 11 WB may be sprayed airless or conventional.
Pump Ratio: 30:1 (minimum)*
GPM Output: 3.0 (minimum)
Material Hose: 3/8" I.D. (minimum)
Tip Size: 0.017-0.019"
Output PSI: 1750-2400
Filter Size: 60 mesh
*PTFE packings are recommended and available from the pump manufacturer.
Prior to use, flush all equipment with Thinner #21 followed by clean potable water. Keep material under mild agitation during application. If spraying stops for more than 10 minutes, recirculate the material remaining in the spray line. Do not leave mixed primer in the hoses during stoppages.

Brush & Roller (General) | Brush for touch-up only. Avoid excessive re-brushing. Use of a roller is not recommended.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	50°F (10°C)	40°F (4°C)	40°F (4°C)	30%
Maximum	95°F (35°C)	110°F (43°C)	110°F (43°C)	95%

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 Recoat & Topcoat w/ other finishes
75°F (24°C)	5 Minutes	18 Hours

These times are based on a 1 mil (25 micron) dry film thickness. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure. Excessive humidity or condensation on the surface during curing can interfere with the cure. Any loose salt that appears on the zinc surface as a result of prolonged weathering exposure must be removed prior to the application of additional coatings. **Do not recoat/topcoat with itself.**

CLEANUP & SAFETY

Cleanup	Use clean, potable water. 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. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.
Ventilation	When used as a tank lining or 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

Shelf Life	Part A: 18 months at 75°F (24°C) Zinc Filler: 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	40° -100°F (4-43°C) 0-90% Relative Humidity
Storage	Store Indoors. KEEP FROM FREEZING. Carboweld 11 WB is an alkali silicate zinc rich primer. Like all water-based inorganic zinc primers trace amounts of alkalinity may remain within its film after cure. This alkaline residue can be detrimental to coating integrity when water is allowed to puddle on its surface. Use only steel storage, shipping and structural design configurations that prevent the puddling or trapping of water. Trace amounts of alkaline residue may concentrate in a drying puddle and result in high pH values that dissolve the coating film. Thorough rinsing reduces the likelihood or scope of the problem.
Shipping Weight (Approximate)	4.34 Gal Kit - 42 lbs. 50 lbs. - 0.86 Gal Kit 9 lbs - 10 lbs

Carboweld[®] 11 WB

PRODUCT DATA SHEET



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.