

SELECTION & SPECIFICATION DATA

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Generic Type	Potassium Silicate, Inorganic Zinc
Description	Carboweld 9 WB is a fast drying, high zinc content, 2-package pre-construction primer for steel substrates. It performs well as a shop/yard primer for corrosion protection during fabrication phase. It provides cathodic sacrificial protection and thus prevents corrosion of the underlying steel, like galvanizing. It contains 81% zinc dust by weight in the dried film. This waterborne product has no VOC or flash point. It can be used as a shop primer when weldability and corrosion protection are necessary. Use it in industrial, marine & process environments.
Features	 High zinc content Zero VOC, water based formula Cathodic protection Excellent undercutting resistance Weldable pre-construction primer Certified for potable water use under ANSI/NSF Standard 61 by Underwriters Laboratories (see Limitations)
Color	Gray
Finish	Flat
Dry Film Thickness	0.75 - 1.25 mils (19 - 32 microns) .
Total Zinc Dust in Dry Film	By Weight: 79%
Solids Content	By Volume 62% +/- 2% Measured in accordance with ASTM D 2697
Theoretical Coverage Rate	1326 ft²/gal at 0.8 mils (32.5 m²/l at 19 microns) 994 ft²/gal at 1.0 mils (24.4 m²/l at 25 microns) 796 ft²/gal at 1.2 mils (19.5 m²/l at 31 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : 0 lbs./gal (0 g/l)
Limitations	Carboweld 9 WB may be used as a pre-construction primer for steel in limited immersion applications such as sea water service. For potable water use, all "visible" zinc must be removed (abrasive sweep blasting) prior to the application of a certified potable water system. Consult Carboline Technical Service for specific needs.(See Surface Preparation - Steel)
Maximum Service Temperature	750 F in continuous service (dry)
Topcoats	Epoxies or others as recommended by your Carboline sales representative
SUBSTRATES &	SURFACE PREPARATION

General Surfaces must be dry and thoroughly cleaned to remove oil, dirt, dust, grease, mill scale, and any other contaminants that can reduce adhesion.

Carboweld[®] 9 WB





SUBSTRATES & SURFACE PREPARATION

SteelAbrasive blast surface preparation shall provide a standard of "White Metal Finish" in accordance
with SSPC-SP10. Abrasive used shall provide a surface profile of a 1 to 1-1/2 mil (25-38 microns)
with a jagged profile.
Automated blasting shall use a mixture of steel shot and grit sufficient to avoid a "peened" profile
while providing the desired profile and appearance. Consult with abrasive blast media supplier as to
best mixture ratio to provide these results.Special InstructionDo not allow to freeze. Do not apply if air, material, or surface and material temperatures are
below 40°F or above 110°F. Do not apply film thicknesses above recommended levels to avoid
mudcracking. Zinc must be thoroughly cured before topcoating. Apply a mist coat of the topcoat
before applying a full coat of the topcoat to minimize bubbling.

MIXING & THINNING

Mixing	Add zinc dust component to liquid resin component while continuously power mixing the liquid. Do not add the liquid portion to the zinc dust component. After mixing, pour through a 50 mesh screen.
Thinning	Thin with water up to 8 fluid ounces per gallon, maximum.
Ratio	<u>1 Gal</u> Carboweld 9 WB Part A: 0.83 gal Special Zinc Filler: 10 lbs <u>5 Gal</u> Carboweld 9 WB Part A: 4.15 gal Special Zinc Filler: 50 lbs
Pot Life	6 hours at 75°F

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) not recommended. Automated Spray Data: Nozzle Pressure: 60 psi Tip Size: .043072" Spray Angle: 40-80° Eilter: Check to ensure filters are clean	Spray Application (General)	Conventional spray is the recommended application method. Airless spray, brushing and rolling are not recommended. Automated Spray Data: Nozzle Pressure: 60 psi Tip Size: .043072" Spray Angle: 40-80° Filter: Check to ensure filters are clean
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APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	40°F (4°C)	40°F (4°C)	40°F (4°C)	0%
Maximum	110°F (43°C)	110°F (43°C)	110°F (43°C)	85%

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 Topcoat	Dry to Touch
41°F (5°C)	4 Days	30 Minutes
50°F (10°C)	36 Hours	10 Minutes
75°F (24°C)	18 Hours	2 Minutes
95°F (35°C)	12 Hours	1 Minute

These times are based on a 1.0 mil (25 micron) dry film thickness. Higher film thickness, insufficient ventilation, high humidity or cooler temperatures will require longer cure times.

CLEANUP & SAFETY

Cleanup Clean up spills & equipment immediately with warm soapy water. Flush equipment with mineral spirits after cleaning.

SafetyRead and follow all caution statements on this product data sheet and on the SDS for this product.SafetyEmploy 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	Carboweld 9 WB Part A: 24 months Special Zinc Filler: 24 months	
	*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.	
Storage Temperature & Humidity	'e & 40-110°F (4-43°C) dity 0-90% RH	
Storage	Store Indoors. KEEP FROM FREEZING.	
Shipping Weight (Approximate)	1 Gal Kit - 20 lbs 5 Gal Kit - 95 lbs	
Flash Point (Setaflash)	None	

APPROVALS

Underwriters | ANSI/NSF Standard 61 Laboratories, Inc

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.