

Selection & Specification Data

Generic Type	Solvent Based Inorganic Zinc
Description	Ultra-low VOC member of the Carbozinc family with extraordinary performance characteristics. Carbozinc 11 HS combines unparalleled performance properties with a 2.4 lbs/gallon (unthinned) and 2.7 lbs/gallon (thinned) formulation that meets even the most stringent VOC restrictions.
Features	<ul style="list-style-type: none"> ▪ Meets Class B slip co-efficient and creep testing criteria for use on faying surfaces ▪ Rapid cure. Dry to handle in 1 hour at 75°F (24°C) and 50% relative humidity ▪ Low temperature cure down to 15°F (-9°C) ▪ High zinc loading ▪ Very good resistance to salting ▪ May be applied with standard airless or conventional spray equipment ▪ May be used as a weldable pre-construction primer where VOC regulations prohibit traditional coatings. Exhibits long-term corrosion resistance during pre-construction is required along with full recoatability and weldability. ▪ VOC compliant to current AIM regulations
Color	Green (0300)
Finish	Flat
Primers	Self Priming
Topcoats	Not required for certain exposures. Can be topcoated with Epoxies, Polyurethanes, Acrylics, High-Heat Silicones and others as recommended by your Carboline sales representative. Under certain conditions, a mist coat is required to minimize topcoat bubbling.
Dry Film Thickness	2.0-3.0 mils (50-75 microns). Dry film thickness in excess of 6.0 mils (150 microns) per coat is not recommended. When used as a weldable pre-construction primer, the recommended DFT is 0.75-1.25 mils (19-31 microns).
Solids Content	By Weight: 91% ± 2%
Zinc Content	By Weight: 84% ± 2% in dry film
Theoretical Coverage Rate	1203 mil ft ² /gal (30.0 m ² /l at 25 microns) 401 ft ² at 3.0 mils (10.0 m ² /l at 75 microns) Allow for loss in mixing and application
VOC Values EPA Method 24	Supplied:: 2.4 lbs./gal (288 g/l) Thinned: 15 oz/gal w/ #26, #33, or #230: 2.95 lbs./gal (354 g/l) (11 oz/.72 gal. kit or 55 oz/3.6 gal kit) 15 oz/gal w/ #237: 2.77 lbs./gal (332 g/l) (11 oz/.72 gal. kit or 55 oz/3.6 gal kit) These are nominal values. Thinned (As pre-construction primer): 38 oz/gal w/ #26: 3.6 lbs./gal (435 g/l) 27 oz/.72 gallon kit or 138 oz/3.6 gallon kit

Selection & Specification Data Cont.

Dry Temp. Resistance	<u>Untopcoated:</u> Continuous: 750°F (399°C) Non-Continuous: 800°F (427°C) <u>With recommended high heat topcoats:</u> Continuous: 1000°F (538°C) Non-Continuous: 1200°F (649°C)
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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.
Steel	SSPC-SP6 <u>Surface Profile:</u> 1.0-3.0 mils (25-75 micron)

Performance Data

Test Method	System	Results	Report #
ASTM D3363 Pencil hardness	1 ct. CZ11HS	Pencil Hardness 3H	03278
ASTM A-325 or A-490 Slip co-efficient	1 ct. CZ11HS	0.58 meets requirements for Class B rating	08510
AASHTO M300	Blasted steel 1ct. CZ11HS	No blistering or rusting of coating or any bare steel areas.	02934
ASTM B117 Salt Spray	Blasted Steel 1 ct. CZ11HS	No rusting or blistering; slight rust in scribe, no creepage at scribe after 70,000 hours	SR 380

Test reports and additional data available upon written request.

Application Equipment

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.

General Guidelines:

Spray Application (General)	The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco. 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 work stoppages.
Conventional Spray	Agitated pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, with a maximum length of 50', .070" 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: .017-.021" Output PSI: 2100-2500 Filter Size: 60 mesh Teflon packings are recommended and available from the pump manufacturer.
Brush	For touch-up of areas less than one square foot only. Use medium bristle brush and avoid rebrushing.
Roller	Not recommended