product data carboline®

Carbozinc® 11

Selection & Specification Data

Generic Type
Solvent Based Inorganic Zinc

Description
Time-tested corrosion resistant primer that protects steel galvanically in the harshest environments. For over 35 years, Carbozinc 11 has been the industry standard for high-performance inorganic zinc protection on steel structures worldwide.

Features
- Meets Class B slip co-efficient and creep testing criteria for use on faying surfaces
- Rapid cure. Dry to handle in 45 minutes at 60°F (16°C) and 50% relative humidity
- Low temperature cure down to 0°F (-18°C)
- High zinc loading
- Meets FDA requirements in gray color
- Available in ASTM D520, Type 2 zinc version
- Very good resistance to salting
- May be applied with standard airless or conventional spray equipment
- VOC compliant in certain areas

Color
Green (0300); Gray (0700)

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.

Solids Content
By Weight: 79% ± 2%

Zinc Content
By Weight: 85% ± 2% in dry film

Theoretical Coverage Rate
1000 mil ft^2 (22.8 m^2/l at 25 microns)
333 ft^2 at 3.0 mils (8.2 m^2/l at 75 microns)
Allow for loss in mixing and application

VOC Values
EPA Method 24: 4.0 lbs/gal (479 g/l)
Thinned:
7 oz/gal w/ #21: 4.1 lbs/gal (492 g/l)
5 oz/gal w/ #26: 4.1 lbs/gal (492 g/l)
5 oz/gal w/ #33: 4.1 lbs/gal (492 g/l)
These are nominal values.

Dry Temp. Resistance
Untopcoated:
Continuous: 750°F (399°C)
Non-Continuous: 800°F (427°C)
With recommended silicone topcoats:
Continuous: 1000°F (538°C)
Non-Continuous: 1200°F (649°C)

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
Immersion: SSPC-SP10. For steel tank linings, welds must be continuous. Remove weld spatter, slag and oxides caused from welding prior to blasting. Note: Immersion applications for this product are limited to certain solvents and petroleum-based products. Contact Carboline Technical Service for specific recommendations.
Non-Immersion: SSPC-SP6
Surface Profile: 1.0-3.0 mils (25-75 micron)

Performance Data

Test Method	System	Results	Report #
ASTM D4541 Adhesion	1 ct. CZ 11	1500 psi Pneumatic	03306
ASTM A-325 Slip Co-efficinet	Blasted steel 1 ct. CZ 11	0.668; meets requirements for Class B rating	02722
ASTM B117 Salt Spray	1 ct. CZ 11 at 2 mils dry film thickness over blasted steel	No rusting or blistering, cracking or delamination after 43000 hrs. Moderate salting of the surface only.	SR 405
ASTM D3363 Pencil Hardness	1 ct. CZ 11	Pencil Hardness "H"	03278
AASHTO M300 Bullet Hole Immersion Paragraph 4.6.9	1 ct. 11 over Abrasive blasted steel	No blistering or rusting of coating or rusting of bare steel area after 650 hrs. Immersion in 5% sodium chloride solution; 1.5" round bare area in coating.	02514

Test reports and additional data available upon written request.

November 1999

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