

SELECTION & SPECIFICATION DATA

Generic Type	Organic Zinc
Description	<p>A two-component, high solids, zinc-rich primer designed to provide excellent corrosion, humidity, damage and chemical resistance.</p> <p>Fully-cured films exhibit extreme hardness, abrasion resistance and excellent corrosion resistance on steel surfaces.</p> <p>When used as a primer for approved top coats, the system exceeds the requirements of numerous IEEE/ANSI enclosure integrity specifications as well as the high-corrosion requirements of ISO 12944, ISO 20340 and numerous OEM specifications.</p>
Color	Metallic Grey
Dry Film Thickness	<p>2 - 5 mils (51 - 127 microns) per coat</p> <p>Not to exceed 5 mils DFT.</p>
Typical Uses	<p>Designed for use in durable metal applications where corrosion resistance, chemical resistance and durability is required. Applications include rail, power generation and transformer equipment, oil and gas, infrastructure, wind energy, water processing and industrial.</p> <p>For optimum corrosion resistance, one of the Strathmore 4015 epoxy series topcoats should be used as a top coat. Please contact your Carboline representative for specific product and application recommendations.</p>
Total Zinc Dust in Dry Film	84%
Solids Content	<p>By Volume 67%</p> <p>90% by weight</p>
Theoretical Coverage Rate	<p>1073 ft²/gal at 1.0 mils (26.3 m²/l at 25 microns)</p> <p>537 ft²/gal at 2.0 mils (13.2 m²/l at 50 microns)</p> <p>215 ft²/gal at 5.0 mils (5.3 m²/l at 125 microns)</p> <p>Allow for loss in mixing and application.</p>
VOC Values	As Supplied : 2.4 lbs/gal (293 g/l)

SUBSTRATES & SURFACE PREPARATION

Steel	<p>Steel surfaces must be clean and dry prior to application of any zinc-rich primer. Zinc-rich primers offer sacrificial galvanic protection of steel surfaces when in intimate contact with the steel. All oils, dust and contamination must be removed prior to application. Surfaces should be blasted to a SSPC-SP10 (Sa 2½/NACE 2) near-water white profile.</p>
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MIXING & THINNING

Mixing	<p>Thoroughly mix or shake Component A for 15 minutes, then add the contents of Component B. Thoroughly mix or shake for an additional 10 minutes.</p>
Ratio	<p>4:1 A to B (by volume), Part A to Part B</p> <p>(Part B formerly known as C86-0194)</p>

Strathmore® 4010-NS Zinc

PRODUCT DATA SHEET



MIXING & THINNING

Pot Life | 24 hours at 72°F (22°C)

APPLICATION PROCEDURES

Application | Airless, air-assisted airless and conventional spray application.
Contact Carboline if assistance is needed.

CURING SCHEDULE

Surface Temp.	Dry Hard	Dry to Handle	Dry to Recoat	Dry to Touch	Final Cure Immersion
72°F (22°C)	24 Hours	4 Hours	1 Hour	1 Hour	7 Days

Please note drying times are temperature dependent.

Force Cure | 1 hour at 200°F (93°C)

TESTING / CERTIFICATION / LISTING

General | Zinc-rich containing coating systems have been tested in accordance with multiple accelerated aging tests per ASTM and ISO standards, as well as in accordance with specific ANSI and IEEE specifications.
In general, zinc-rich -containing coating systems exceed the requirements of many of many Industrial OEM specifications. Please contact your Carboline representative for specific test results.
Applicable ASTM Methods:
Weight/gallon: ASTM D1475-90
VOC content/gal: ASTM D3960-90
Solids by weight: ASTM D2369-90
Solids by volume: ASTM D2697-86
Viscosity: ASTM D4212-88
Industry Specifications and Reference:
IEEE Std C57.12.28™ - 2005: IEEE Standard for Pad-Mounted Equipment – Enclosure Integrity
IEEE Std C57.12.29™ - 2005: IEEE Standard for Pad-Mounted Equipment – Enclosure Integrity for Coastal Environments
IEEE Std C57.12.32™ - 2002: IEEE Standard for Submersible Equipment – Enclosure Integrity
ISO 12944: “Paint and Varnishes – Corrosion Protection of Steel Structures By Protective Paint Systems”
ISO 20340: “Paint and Varnishes – Performance Requirements For Protective Paint Systems for Offshore and Related Structures”
For specific test results and adherence to specific specifications, please contact your Strathmore Products representative.

PACKAGING, HANDLING & STORAGE

Shelf Life | Part A: 6 months
Part B: 24 months

Storage Temperature & Humidity | Parts A and B should not be stored below 40°F (4°C) and not above 110°F (43°C).



PACKAGING, HANDLING & STORAGE

Storage	Materials should be stored in sealed containers when not in use. Do not store containers near sources of heat. Handling and disposal should be done in accordance to local, state and Federal safety regulations. Please consult the Material Safety Data Sheets for more specific handling and disposal information.
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Shipping Weight (Approximate)	One Gallon Kit: 25 lbs (11.4 kg)
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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.