

SELECTION & SPECIFICATION DATA

Generic Type	Epoxy, zinc rich primer
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 with approved top-coats the system exceeds the requirements of numerous IEEE/ANSI enclosure integrity specifications as well 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>5 mils max</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, Strathmore 4015-NS Epoxy 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	By Volume 68%
Theoretical Coverage Rate	<p>1091 ft²/gal at 1.0 mils (26.8 m²/l at 25 microns)</p> <p>545 ft²/gal at 2.0 mils (13.4 m²/l at 50 microns)</p> <p>218 ft²/gal at 5.0 mils (5.4 m²/l at 125 microns)</p> <p>Allow for loss in mixing and application.</p>
VOC Values	<p>As Supplied : Mixed: 2.3 lbs / gal (272 g/l)</p> <p>As Supplied : Part A: 2.5 lbs/gal (305.6 g/l)</p> <p>MVOC Content/gal:</p> <p>Part A: 2.5 lbs/gal (305.6 g/l)</p> <p>Mixed: 2.3 lbs/gal (272 g/l)</p>
Viscosity	Zahn #2 (72°F / 22°C): 30-45 sec

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 contact with the steel. All oils, dust and contamination must be removed prior to application. Surfaces should be blasted to a minimum Commercial Blast per NACE No. 3/SSPC-SP6 with 1 – 3 mil (25 - 75 micron) anchor 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>
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Strathmore 4010-NS HB Zinc

PRODUCT DATA SHEET



MIXING & THINNING

Ratio | 4:1
A to B (by volume), Part A to Part B
(Part B formerly known as C86-0184)

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

Flash Off Air Dry: 1 hour at room temperature.
Please note drying times are temperature dependent.

Force Cure | 1 hour at 200°F (93°C)

CLEANUP & SAFETY

Cleanup | Appropriate PPE Safety Equipment should be used. Disposal should be done in accordance to local, state and Federal regulations. Please consult the Material Safety Data Sheets for more specific handling and disposal information.

TESTING / CERTIFICATION / LISTING

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. This product meets or exceeds numerous OEM requirements and specifications.

General | **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

PACKAGING, HANDLING & STORAGE

Storage Temperature & Humidity | Components "A" and "B" should not be stored below 40°F (4°C) nor above 110°F (43°C).

Storage | Materials should be stored in sealed containers when not in use. Do not store containers near sources of heat.

Shipping Weight (Approximate) | One Gallon Kit: 25 lbs (11.3 kg)

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.