



ORGANIC ZINC RICH PRIMER V170

Features

- High zinc content delivers cathodic protection
- Can be top coated or left uncoated
- Thermoplastic resin requires tie coat under certain finishes

Recommended For

Ferrous Metal & Weathered Galvanized. Corotech® Organic Zinc-Rich Primer is designed for the General Metal Finishing / Fabrication market, industrial maintenance market, the marine / offshore market.

General Description

Organic Zinc Rich Primer is a heavy-duty corrosion inhibitor for interior or exterior ferrous metal and weathered galvanized metal. It is made from an organic thermoplastic resin and leaves a finished film that is 83% zinc. Ideal for touching up existing galvanized metal with no topcoat.

Limitations

- Not for immersion service.
- Do not apply Corotech® Organic Zinc Rich Primer if air or surface temperatures are below 1 °C (35 °F) or above 32°C (90 °F), or in relative humidity greater than 90%, or if surface or air temperatures are within 5 degrees of the dew point.
- Do not apply over previous finishes.

Product Information

<p>Colours — Standard: Gray (79)</p> <hr/> <p>— Tint Bases: N/A Do not tint.</p> <hr/> <p>— Special Colours: Contact your retailer.</p> <hr/> <p>Certification: The product supported by this data sheet contains a maximum of 500 grams per litre VOC / VOS excluding water & exempt solvents. This product is compliant as a Metallic Pigmented Coating. This product is currently approved for use under MPI #18. Cold Galvanizing Project Qualification Meets Composition Requirements of TT-P-1046 Meets Performance Requirements of TT-P-641 & DOD-P-21035 Meets Performance Requirements of Mil-P-26915 Type I, Class A Meets SSPC Paint #5 & SSPC Paint #20, Type II</p> <hr/> <p>Technical Assistance: Available through your local authorized independent Benjamin Moore® retailer. For the location of the retailer nearest you, call 1-800-361-5898, or visit www.benjaminmoore.ca</p>	<p>Technical Data ◊ Gray</p> <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Vehicle Type</td> <td style="text-align: right;">Thermoplastic Rubber</td> </tr> <tr> <td>Pigment Type</td> <td style="text-align: right;">Zinc</td> </tr> <tr> <td>Volume Solids</td> <td style="text-align: right;">42.5 ± 1.0%</td> </tr> <tr> <td>Coverage per 3.79 L at</td> <td style="text-align: right;">27.9 – 37.2 sq. m.</td> </tr> <tr> <td>Recommended Film Thickness</td> <td style="text-align: right;">(300 - 400 sq. ft.)</td> </tr> <tr> <td>Recommended Film Thickness</td> <td style="text-align: right;">– Wet 4.0 - 5.5 mils</td> </tr> <tr> <td></td> <td style="text-align: right;">– Dry 1.7 - 2.3 mils</td> </tr> <tr> <td colspan="2">Depending on surface texture and porosity.</td> </tr> <tr> <td>Dry Time @ 25 °C (77 °F) @ 50% RH</td> <td style="text-align: right;">– Tack Free 30 Minutes</td> </tr> <tr> <td></td> <td style="text-align: right;">– To Recoat 12 Hours</td> </tr> <tr> <td></td> <td style="text-align: right;">– Full Cure 72 Hours</td> </tr> <tr> <td colspan="2">High humidity and cool temperatures will result in longer dry, recoat and service times.</td> </tr> <tr> <td>Dries By</td> <td style="text-align: right;">Evaporation</td> </tr> <tr> <td>Viscosity</td> <td style="text-align: right;">100 – 115 KU</td> </tr> <tr> <td>Flash Point</td> <td style="text-align: right;">26.7 °C (80 °F) or greater (TT-P-141, Method 4293)</td> </tr> <tr> <td>Gloss / Sheen</td> <td style="text-align: right;">0 – 5 units @ 60°</td> </tr> <tr> <td>Surface Temperature at Application</td> <td style="text-align: right;">– Min. 1.8 °C (35 °F)</td> </tr> <tr> <td></td> <td style="text-align: right;">– Max. 32 °C (90 °F)</td> </tr> <tr> <td>Thin With</td> <td style="text-align: right;">Do Not Thin</td> </tr> <tr> <td>Clean Up Thinner</td> <td style="text-align: right;">Corotech® V703 Xylene</td> </tr> <tr> <td>Weight Per 3.79 L</td> <td style="text-align: right;">9.2 kg (20.3 lbs)</td> </tr> <tr> <td>Storage Temperature</td> <td style="text-align: right;">– Min. 7.2 °C (45 °F)</td> </tr> <tr> <td></td> <td style="text-align: right;">– Max. 35 °C (95 °F)</td> </tr> </table> <hr/> <p style="text-align: center;">Volatile Organic Compounds (VOC)</p> <p style="text-align: center;">500 Grams/Litre</p>	Vehicle Type	Thermoplastic Rubber	Pigment Type	Zinc	Volume Solids	42.5 ± 1.0%	Coverage per 3.79 L at	27.9 – 37.2 sq. m.	Recommended Film Thickness	(300 - 400 sq. ft.)	Recommended Film Thickness	– Wet 4.0 - 5.5 mils		– Dry 1.7 - 2.3 mils	Depending on surface texture and porosity.		Dry Time @ 25 °C (77 °F) @ 50% RH	– Tack Free 30 Minutes		– To Recoat 12 Hours		– Full Cure 72 Hours	High humidity and cool temperatures will result in longer dry, recoat and service times.		Dries By	Evaporation	Viscosity	100 – 115 KU	Flash Point	26.7 °C (80 °F) or greater (TT-P-141, Method 4293)	Gloss / Sheen	0 – 5 units @ 60°	Surface Temperature at Application	– Min. 1.8 °C (35 °F)		– Max. 32 °C (90 °F)	Thin With	Do Not Thin	Clean Up Thinner	Corotech® V703 Xylene	Weight Per 3.79 L	9.2 kg (20.3 lbs)	Storage Temperature	– Min. 7.2 °C (45 °F)		– Max. 35 °C (95 °F)
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◊ Reported values are for Gray. Contact retailer for values of other bases or colours.

Organic Zinc Rich Primer V170

Surface Preparation

The performance of this product is directly dependent upon the degree of surface preparation employed. All dirt, oils, accumulated salts, and other contaminants must be removed prior to employing specific surface preparation methods. Removal of all contaminants should be completed in accordance with SSPC-SP 1. Ferrous metal substrates should be free of all mill scale and rust. Aggregate blasting should be in accordance with SSPC-SP 10 Near White Blast for cleanliness. Conscientious power tool cleaning (SSPC-SP 3) may be employed; however, for best results, power tool cleaning to bare metal (SSPC-SP 11) is strongly suggested. Weathered Galvanized substrates should have all rust removed by aggregate blasting in accordance with SSPCSP 10 Near White Blast for cleanliness. Conscientious power tool cleaning (SSPC-SP 3) may be employed; however, for best results, power tool cleaning to bare metal (SSPC-SP 11) is strongly suggested.

It is not recommended that this coating be applied over previous finishes.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by logging onto Health Canada @ <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/environmental-contaminants/lead/lead-information-package-some-commonly-asked-questions-about-lead-human-health.html>

Application

Mix the product thoroughly before application. The use of a drill mixer at low speed will best accomplish this task. Ensure that all zinc is mixed into solution with none remaining on the bottom of the can. Do not apply Corotech® Organic Zinc Rich Primer if air or surface temperatures are below 1 °C (35 °F) or above 32 °C (90 °F), or in relative humidity greater than 90%, or if surface or air temperatures are within 5 degrees of the dew point. Product should be allowed to dry tack free prior to air or surface temperatures being within 5 degrees of the dew point.

Airless Spray (Preferred Method): Tip range between .019 and .025. Total fluid output pressure at tip should not be less than 2100 psi.

Air Spray (Pressure Pot): Must have air agitator. Binks or equivalent equipment. (Gun: #18 or 62; Fluid Nozzle: #66; Air Nozzle: 66 PE).

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner.

Brush: Natural Bristle (for small areas only).

TEST DATA	
Dry Heat Resistance	93 °C (200 °F)
Wet Heat Resistance	52 °C (125 °F)
Adhesion (ASTM D3359)	Pass 5B
Salt Fog Resistance (ASTM B117) One coat	500 Hours-Pass (Rating: 10 Rust Area: 0.00%)
CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	See Finish Coat Data Sheets for Resistance Information.
Salt Water	
Acids	
Alkalis	
Solvents	
Fuel	
Acidic Salt Solutions	
Alkaline Salt Solutions	
Neutral Salt Solutions	
SYSTEMS RECOMMENDATIONS	
COMPATIBLE FINISHES	
V300 Line, V330 Line, V341/V342 Line, V440 Line, V540 Line, and Other Acrylics	

Clean Up

Clean with Corotech® V703 Xylene.

Environmental Health & Safety Information

DANGER!

Causes skin irritation

Causes serious eye irritation

May cause cancer

Suspected of damaging fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure

May be fatal if swallowed and enters airways

Flammable liquid and vapor

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Wear eye /face protection. Do not breathe dust /fume /mist /vapors /spray. Keep away from heat /sparks /open flames /hot surfaces, no smoking. Keep container tightly closed. Ground /bond container and receiving equipment. Use explosion-proof electrical /ventilating /lighting /equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Response: If exposed or concerned get medical attention. If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention. If skin irritation occurs get medical attention. If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. If swallowed immediately call a POISON CENTER or physician. Do NOT induce vomiting. In case of fire use CO2, dry chemical, or foam for extinction.

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents /container to an approved waste disposal plant.

This document represents hazards of the product referenced above. Refer to the individual Safety Data Sheet for hazards of the specific product you will be using.

**KEEP OUT OF REACH OF CHILDREN
PROTECT FROM FREEZING
FOR PROFESSIONAL USE ONLY**

**Refer to Safety Data Sheet for
additional health and safety information.**