COROTHANE® I GALVAPAC
1K ZINC PRIMER

B65G11
B65RW11

GRAY
RED

Product Information

Product Description
COROTHANE® I GALVAPAC 1K ZINC PRIMER is a moisture curing urethane zinc-rich primer. Designed for low temperature application to steel surfaces.

- Meets Class B requirements for Slip Coefficient and Creep Resistance, .54
- Resistant to mudcracking
- Usable for immersion service with recommended topcoated
- Easy to apply and recoat
- Abrasion and chemical resistant
- NSF approved to Standard 61 for potable water
- Low temperature application - down to 20°F (-7°C)
- As a primer in a urethane coating system for bridges, tanks, chemical, and marine structures
- Ideal for priming water assisted abrasive blasted surfaces where flash rusting or blooming limits the use of conventional zinc rich coatings
- Acceptable for use with cathodic protection with select topcoats
- Conforms to AWWA D102 Inside Coating System #3 (ICS-3), Outside Coating System #5 (ICS-5), Inside Coating System #6 (ICS-6), Outside Coating System #2 (OCS-2), Outside Coating System #3 (OCS-3), Outside Coating System #4 (OCS-4), and Outside Coating System #8 (OCS-6)
- A component of INFINTANK

Product Characteristics

<table>
<thead>
<tr>
<th>Finish:</th>
<th>Flat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Gray and Red</td>
</tr>
<tr>
<td>Volume Solids:</td>
<td>67% ± 2%</td>
</tr>
<tr>
<td>Weight Solids:</td>
<td>91.7% ± 2%</td>
</tr>
<tr>
<td>VOC (calculated):</td>
<td>&lt;300 g/L; 2.5 lb/gal (unreduced)</td>
</tr>
<tr>
<td>Zinc Content in Dry Film:</td>
<td>85% by weight</td>
</tr>
</tbody>
</table>

Recommended Spreading Rate per coat at:

<table>
<thead>
<tr>
<th>Standard</th>
<th>AWWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet mils (microns)</td>
<td>4.5</td>
</tr>
<tr>
<td>Dry mils (microns)</td>
<td>3.75</td>
</tr>
<tr>
<td>Coverage sq ft/gal (m²/L)</td>
<td>268</td>
</tr>
<tr>
<td>Theoretical coverage sq ft/gal (m²/L)</td>
<td>1072</td>
</tr>
</tbody>
</table>

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

*See Recommended Systems on reverse side

Performance Characteristics

Drying Schedule @ 5.0 mils wet (125 microns):

<table>
<thead>
<tr>
<th>@ 40°F/4.5°C</th>
<th>@ 77°F/25°C</th>
<th>@ 100°F/38°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>45 minutes</td>
<td>20 minutes</td>
<td>10 minutes</td>
</tr>
</tbody>
</table>

To touch: 45 minutes, atmospheric service:
8 hours
To recoat (minimum), atmospheric service: 4-6 hours
To recoat (minimum), immersion service: 1 hour
To recoat (maximum): 12 hours
To recoat: 12 months
To cure, atmospheric service: 5 days
To cure, immersion service: 14 days

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

For potable water service, consult www.nsf.org for details on recoat and dry times at indicated temperature. Sterilize and rinse per AWWA C652.

Recommended Uses

- 250,000 gallon untopcoated
- 20,000 gallon minimum topcoated
- Meets requirements of SSPC Paint Spec No. 40, Type I and Type II, for zinc rich moisture cure urethane primer
- Meets requirements of SSPC Paint 20, Level 1
- As a primer in a urethane coating system for bridges, tanks, chemical, and marine structures
- Ideal for priming water assisted abrasive blasted surfaces where flash rusting or blooming limits the use of conventional zinc rich coatings
- Acceptable for use with cathodic protection with select topcoats
- Conforms to AWWA D102 Inside Coating System #3 (ICS-3), Outside Coating System #5 (ICS-5), Inside Coating System #6 (ICS-6), Outside Coating System #2 (OCS-2), Outside Coating System #3 (OCS-3), Outside Coating System #4 (OCS-4), and Outside Coating System #8 (OCS-6)
- A component of INFINTANK

Substrate*: Steel
Surface Preparation*: SSPC-SP5

System Tested*:
1 ct. Corothane I GalvaPac 1K Zinc Primer @ 3.5 mils (88 microns) dft
1 ct. Corothane I MIO-Aluminum @ 3.0 mils (75 microns) dft

Test Name | Test Method | Results
---|---|---
Abrasion Resistance | ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load | 45 mg loss
Adhesion (GalvaPac only) | ASTM D4541; ASTM D3359 | 1943 psi (ASTM D4541); 5B (ASTM D3359)
Corrosion Weathering | ASTM D5894, 15 cycles, 5000 hours | Rating 10 per ASTM D610 Rusting (field); Rating 10 per ASTM D714 Blistering
Direct Impact Resistance (GalvaPac only) | ASTM G14 | 160 in. lb.
Flexibility | ASTM D522, 180° bend, 1/4" mandrel | Passes
Immersion (GalvaPac/2 cts Macropoxy 646 NSF) | 5 year potable water | Rating 10 per ASTM D610 Rusting; Rating 10 per ASTM D714 Blistering
Moisture Condensation Resistance (GalvaPac only) | ASTM D4585, 100°F (38°C), 4000 hours | Rating 10 per ASTM D610 Rusting; Rating 10 per ASTM D714 Blistering
Pencil Hardness | ASTM D3363 | 2H (zinc only)
Salt Fog Resistance (GalvaPac only) | ASTM B117, 5000 hours | Rating 10 per ASTM D610 Rusting; Rating 10 per ASTM D714 Blistering
Slip Coefficient* (GalvaPac only) | AISC Specification for Structural Joints Using ASTM A325 or ASTM A490 Bolts | Class B, .54, tension and creep <0.005
Wet Heat Resistance | Non-immersion | 190°F (88°C)

*Refer to Slip Certification document
Revised: March 11, 2020

**PRODUCT INFORMATION**

---

### Recommended Systems

<table>
<thead>
<tr>
<th>Immersion Service (Potable Water), Steel:</th>
<th>Dry Film Thickness / ct.</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>AWWA D102: Inside Coating System No. 5</em></td>
<td>Mils (Microns)</td>
</tr>
<tr>
<td>minimum AWWA</td>
<td></td>
</tr>
<tr>
<td>1 ct. Corothane I GalvaPac 1K Zinc Primer</td>
<td>10.0 (250)</td>
</tr>
<tr>
<td>2 ct. Macropoxy 646 PW</td>
<td>4.0 (100)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Immersion Services (Potable Water), Steel:</th>
<th>1 ct.</th>
<th>2 ct.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corothane I GalvaPac 1K Zinc Primer</td>
<td>3.0-4.0</td>
<td>5.0-10.0</td>
</tr>
<tr>
<td>Macropoxy 646 PW</td>
<td>(75-100)</td>
<td>(125-250)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Immersion Services (Potable Water), Ductile Iron Pipe:</th>
<th>1 ct.</th>
<th>2 ct.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corothane I GalvaPac 1K Zinc Primer</td>
<td>3.0-4.0</td>
<td>5.0-10.0</td>
</tr>
<tr>
<td>Macropoxy 646 PW</td>
<td>(75-100)</td>
<td>(125-250)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Immersion Service (Non-Potable Water), Steel:</th>
<th>1 ct.</th>
<th>2 ct.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corothane I GalvaPac 1K Zinc Primer</td>
<td>3.0-4.0</td>
<td>5.0-7.0</td>
</tr>
<tr>
<td>Corothane I Coal Tar</td>
<td>(75)</td>
<td>(125-175)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Atmospheric Service, Steel:</th>
<th>1 ct.</th>
<th>2 ct.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corothane I GalvaPac 1K Zinc Primer</td>
<td>3.0</td>
<td>5.0-10.0</td>
</tr>
<tr>
<td>Corothane Ironox B</td>
<td>3.0</td>
<td>(75)</td>
</tr>
<tr>
<td>Corothane I HS</td>
<td>1.5</td>
<td>(40)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Atmospheric Service, Steel:</th>
<th>1 ct.</th>
<th>2 ct.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corothane I GalvaPac 1K Zinc Primer</td>
<td>3.0-4.0</td>
<td>5.0-6.0</td>
</tr>
<tr>
<td>Sher-Loxane 800</td>
<td>4.0-6.0</td>
<td>(100-150)</td>
</tr>
</tbody>
</table>

---

### Surface Preparation

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

**Iron & Steel**

- Atmospheric: SSPC-SP6, 2 mil (50 micron) profile preferred
- Immersion, with recommended topcoat: SSPC-SP10/NACE 2, 2 mil profile

**Ductile Iron Pipe**

- Atmospheric: NAPF 500-03-03 Power Tool Cleaning
- Buried & Immersion: NAPF 500-03-04 Abrasive Blast Cleaning
- Cast Ductile Iron Fittings: NAPF 500-03-05 Abrasive Blast Cleaning

---

### Temperature

- Air and surface: 20°F (-7°C) minimum, 120°F (49°C) maximum
- Material: 45°F (7°C) minimum

Do not apply over surface ice

Relative humidity: 30% minimum, 99% maximum

Refer to product Application Bulletin for detailed application information.

---

### Ordering Information

Packaging: 3 gallon (11.3L) container
Weight: 28.5 ± 0.2 lb/gal ; 3.42 Kg/L

---

### Safety Precautions

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

---

### Warranty

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

---

**Disclaimer**

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

---

**www.sherwin-williams.com/protective**
Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Iron & Steel, Immersion Service:
Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Remove all weld spatter and round all sharp edges by grinding. Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

Iron & Steel, Atmospheric Service:
Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

Ductile Iron Pipe, Atmospheric Service:
Minimum surface preparation is Power Tool Clean per NAPF 500-03-03. Remove all oil and grease from surface by Solvent Cleaning per NAPF 500-03-01.

Ductile Iron Pipe, Buried and Immersion Service:
Minimum surface preparation is Abrasive Blast Cleaning per NAPF 500-03-04. Ductile iron pipe external surfaces, in some cases, can be damaged by excessive abrasive blast cleaning beyond this standard. Remove all oil and grease from surface by Solvent Cleaning per NAPF 500-03-01.

Ductile Iron Fittings:
Minimum surface preparation is Abrasive Blast Cleaning of Cast Ductile Iron Fittings per NAPF 500-03-05. Remove all oil and grease from surface by Solvent Cleaning per NAPF 500-03-01.
Surface preparation must be completed as indicated.

Mix material thoroughly prior to use with a low speed power agitator until completely uniform. After mixing, pour through a 50 mesh filter.

Apply paint at the recommended film thickness and spreading rate as indicated below:

<table>
<thead>
<tr>
<th>Recommended Spreading Rate per coat:</th>
<th>Standard Min.</th>
<th>Max.</th>
<th>AWWA Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet mils (microns)</td>
<td>4.5 112</td>
<td>6.8 170</td>
<td>3.0 75</td>
<td>6.0 150</td>
</tr>
<tr>
<td>Dry mils (microns)</td>
<td>3.0 75</td>
<td>4.0 100</td>
<td>2.0 50</td>
<td>4.0* 100*</td>
</tr>
<tr>
<td>Coverage sq ft/gal (m²/L)</td>
<td>268 6.5</td>
<td>358 8.8</td>
<td>268 6.5</td>
<td>536 13.1</td>
</tr>
<tr>
<td>Theoretical coverage sq ft/gal (m²/L) @ 1 mil/25 micron dft</td>
<td>1072 (26.2)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance. *See Recommended Systems on reverse side.

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

**Drying Schedule @ 5.0 mils wet (125 microns):**

- @ 40°F/4.5°C: 45 minutes
- @ 77°F/25°C: 20 minutes
- @ 100°F/38°C: 10 minutes
- 50% RH: 1 hour

- To touch: 8 hours
- To recoat (minimum), atmospheric service: 24 hours
- To recoat (minimum), immersion service: 12 months
- To recoat (maximum): 12 months
- To cure, atmospheric service: 5 days
- To cure, immersion service: 14 days

If maximum recoat time is exceeded, abrade surface before recoating.

Drying time is temperature, humidity, and film thickness dependent.

For portable water service, consult www.nsf.org for details on recoat and dry times.

Chinthability and fitness for a particular purpose.

**Clean Up Instructions**

Clean spills and spatters immediately with Reducer #15, R7K15 or R7K111. Clean tools immediately after use with Reducer #15, R7K15 or R7K111. Follow manufacturer’s safety recommendations when using any solvent.

**Disclaimer**

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

**Performance Tips**

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

Spread rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer #15, R7K15 or R7K111.

Pour a small amount of Reducer #15, R7K15 or R7K111 over the top of the paint in the can to prevent skinning or gelling.

Place a temporary cover over the pail to keep excessive moisture, condensation, fog, or rain from contaminating the coating.

It is recommended that partially used cans not be sealed/closed for use at a later date.

An intermediate coat is recommended to provide a uniform appearance of the topcoat.

Not for use with cathodic protection except as indicated under the recommended systems.

Corothane I KA Accelerator is acceptable for use (except NSF applications). See data page 5.98 for details.

Refer to Product Information sheet for additional performance characteristics and properties.

**Safety Precautions**

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

**Warranty**

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.