



**Protective
&
Marine
Coatings**



Certified to
NSF/ANSI/CAN 61
Meeting Health
Effects Requirements
of NSF/ANSI/CAN
600

COROTHANE® I GALVAPAC 2K 100 TWO PACK ZINC PRIMER

**PART A
PART F**

**B65G18
B69D210**

**BINDER
ZINC DUST**

Revised: October 7, 2024

PRODUCT INFORMATION

5.16

PRODUCT DESCRIPTION

COROTHANE I GALVAPAC 2K 100 is a two component, moisture curing urethane zinc-rich primer designed for low temperature application to blast cleaned or power tool cleaned steel surfaces.

- Low temperature application - down to 20°F
- Easy to apply and recoat
- Resistant to mudcracking
- Abrasion and chemical resistant

PRODUCT CHARACTERISTICS

Finish:	Flat
Color:	Green
Volume Solids:	70% ± 2%, mixed
Weight Solids:	88% ± 2%
VOC (calculated):	<100 g/L; 0.83 lb/gal, mixed
Mix Ratio:	2 components; premeasured 2.79 gallon mix

Zinc Content in Dry Film: 81% ± 2% by weight

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils:	3.6	6.0
Dry mils:	2.5	4.2
~Coverage sq ft/gal:	267	449

*See recommended systems on reverse side

Drying Schedule @ 5.0 mils wet @ 50% RH:

	@ 40°F	@ 77°F	@ 100°F
To touch:	45 minutes	20 minutes	10 minutes
To recoat, atmospheric service:			
minimum:	8 hours	4-6 hours	1 hour
To recoat, immersion service:			
minimum:	24 hours	12 hours	10 hours
To cure, atmospheric service:			
minimum:	5 days	3 days	1 day
To cure, immersion service:			
minimum:	14 days	7 days	5 days

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

Shelf Life:	Part A: 12 months, unopened Part F: 24 months, unopened Store indoors at 40°F to 100°F.
Flash Point:	112°F, PMCC, Part A
Reducer/Clean Up:	Reducer R7K111

RECOMMENDED USES

- **Immersion Service - potable water:** Meets NSF Standard 61/600 for use in potable water storage.
 - 4,000 gallon minimum topcoated - dependent upon topcoat tank size restriction
- Meets requirements of SSPC Paint Spec No. 40 for zinc rich moisture cure urethane primer
- 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), Inside Coating System #5 (ICS-5), Outside Coating System #2 (OCS-2), Outside Coating System #3 (OCS-3), Outside Coating System #4 (OCS-4), and Outside Coating System #6 (OCS-6)
- A component of INFINITANK
- Approved with FIRETEX hydrocarbon coatings

PERFORMANCE CHARACTERISTICS

Substrate*: Steel

Surface Preparation*: SSPC-SP5

System Tested*:

1 ct. Corothane I GalvaPac 2K 100 @ 3.5 mils dft

1 ct. Corothane I MIO-Aluminum @ 3.0 mils dft

*unless otherwise noted below

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	45 mg loss
Adhesion (Zinc Only)	ASTM D4541	1943 psi
Corrosion Weathering	ASTM D5894, 15 cycles, 5000 hours	Rating 10 per ASTM D610 for Rusting (field); Rating 10 per ASTM D714 for Blistering
Direct Impact Resistance (Zinc Only)	ASTM D2794	160 in. lb.
Dry Heat Resistance	ASTM D2485	300°F continuous, 350°F intermittent
Flexibility	ASTM D522, 180° bend, 1/4" mandrel	Passes
Moisture Condensation Resistance (Zinc Only)	ASTM D4585, 100°F, 4000 hours	Rating 10 per ASTM D610 for Rusting; Rating 10 per ASTM D714 for Blistering
Pencil Hardness	ASTM D3363	2H (zinc only)
Salt Fog Resistance (Zinc Only)	ASTM B117, 5000 hours	Rating 10 per ASTM D610 for Rusting; Rating 10 per ASTM D714 for Blistering
Wet Heat Resistance	Non-immersion	190°F



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RECOMMENDED SYSTEMS

Dry Film Thickness / ct.
Mils

Immersion Service (Potable Water), Steel:

1 ct. Corothane I GalvaPac 2K 100 2.5-4.2
2 cts. SherPlate 600 3.0-18.0

or

1 ct. Corothane I GalvaPac 2K 100 2.5-4.2
1 ct. SherPlate PW Epoxy 18.0-50.0

Immersion Service (Potable Water), Ductile Iron Pipe:

1 ct. Corothane I GalvaPac 2K 100 2.5-4.2
2 cts. SherPlate 600 3.0-18.0

Immersion Service (Non-Potable Water), Steel:

1 ct. Corothane I GalvaPac 2K 100 2.5-4.2
2 cts. Corothane I Coal Tar 5.0-7.0

Atmospheric Service, Steel:

1 ct. Corothane I GalvaPac 2K 100 2.5-4.2
1 ct. Corothane Ironox B 3.0-5.0
1 ct. Corothane I HS 2.0-3.0

or

1 ct. Corothane I GalvaPac 2K 100 2.5-4.2
1 ct. Macropoxy 646-100 5.0-8.0
1 ct. Waterbased Acrolon 100 2.0-4.0

or

1 ct. Corothane I GalvaPac 2K 100 2.5-4.2
1 ct. Sher-Loxane 800 4.0-6.0

The systems listed above are representative of the product's use, other systems may be appropriate.

DISCLAIMER

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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/NACE 3, 2 mil profile preferred

Immersion, with recommended topcoat: SSPC-SP10, 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

Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	C St 2	C St 2	SP 2	-
Pitted & Rusted	D St 2	D St 2	SP 2	-
Rusted	C St 3	C St 3	SP 3	-
Power Tool Cleaning	D St 3	D St 3	SP 3	-

TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature:
air and surface: 20°F minimum, 120°F maximum
material: 45°F 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:
Part A: 1.77 gallons in a 3 gallon container
Part F: 60 lb zinc dust

Weight per gallon: 30.4 lbs

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 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



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APPLICATION BULLETIN

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SURFACE PREPARATIONS

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). 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/NACE 3. 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). 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 NAPP 500-03-03. Remove all oil and grease from surface by Solvent Cleaning per NAPP 500-03-01.

Ductile Iron Pipe, Buried and Immersion Service:

Minimum surface preparation is Abrasive Blast Cleaning per NAPP 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 NAPP 500-03-01.

Ductile Iron Fittings:

Minimum surface preparation is Abrasive Blast Cleaning of Cast Ductile Iron Fittings per NAPP 500-03-05. Remove all oil and grease from surface by Solvent Cleaning per NAPP 500-03-01.

APPLICATION CONDITIONS

Temperature:
air and surface: 20°F minimum, 120°F maximum
material: 45°F minimum

Do not apply over surface ice

Relative humidity: 30% minimum, 99% maximum

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer/Clean Up.....Reducer, R7K111

Airless Spray

Pump.....30:1
Pressure.....1800-2000 psi
Hose.....1/4" ID
Tip0.015" - .019"
Filter60 mesh
ReductionAs needed up to 10% by volume

Conventional Spray

Unit.....Graco Binks
Gun900 95
Fluid Nozzle070 66/65
Air Nozzle.....947 63PR
Atomization Pressure60-70 psi 60-70 psi
Fluid Pressure15-20 psi 15-20 psi
ReductionAs needed up to 10% by volume

Brush

Brush.....Natural bristle
ReductionAs needed up to 10% by volume

Roller

Cover3/8" natural or synthetic with solvent resistant core
ReductionAs needed up to 10% by volume

If specific application equipment is not listed above, equivalent equipment may be substituted.

Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	CSt 2	CSt 2	SP 2	-
Pitted & Rusted	DSt 2	DSt 2	SP 2	-
Rusted	CSt 3	CSt 3	SP 3	-
Power Tool Cleaning	DSt 3	DSt 3	SP 3	-
Pitted & Rusted	DSt 3	DSt 3	SP 3	-



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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Corothane I GalvaPac 2K 100 comes in 2 premeasured containers which when mixed provides 2.79 gallons of ready-to-apply material.

Mixing Instructions: Thoroughly agitate Binder Part A. Using continuous air driven agitation, slowly mix all 60 lbs. of Zinc Dust, B69D210, Part F into Binder Part A until mixture is completely uniform. After mixing, pour mixture through 30-60 mesh screen. Mixed material must be used within 8 hours. Do not mix previously mixed material with new.

If reducer solvent is used, add only after both components have been thoroughly mixed.

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

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils:	3.6	6.0
Dry mils:	2.5	4.2
~Coverage sq ft/gal:	267	449

*See recommended systems on reverse side

Drying Schedule @ 5.0 mils wet @ 50% RH:

	@ 40°F	@ 77°F	@ 100°F
To touch:	45 minutes	20 minutes	10 minutes
To recoat, atmospheric service:			
minimum:	8 hours	4-6 hours	1 hour
To recoat, immersion service:			
minimum:	24 hours	12 hours	10 hours
To cure, atmospheric service:			
5 days	3 days	1 day	
To cure, immersion service:			
14 days	7 days	5 days	

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

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

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Reducer R7K111. Clean tools immediately after use with Reducer R7K111. Follow manufacturer's safety recommendations when using any solvent.

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PERFORMANCE TIPS

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

Spreading 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, adhesion, and NSF 61/600 approval.

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

Pour a small amount of Reducer 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.

Do not use continuous agitation.

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.

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

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

SAFETY PRECAUTIONS

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