

COROTHANE® I **IRONOX®** B

REDDISH GRAY B65A11

Revised: March 25, 2022

PRODUCT INFORMATION

5.07

PRODUCT DESCRIPTION

COROTHANE I IRONOX B is a single component, moisture curing urethane intermediate coat with micaceous iron oxide designed for low temperature applications, providing chemical and abrasion resistance.

- Low temperature application down to 20°F (-7°C)
- · Outstanding adhesion to most surfaces
- · Outstanding abrasion and chemical resistance
- · Suitable for use in USDA inspected facilities
- · Enhanced coating strength and edge protection with micaceous iron oxide addition
- · Outstanding application properties

PRODUCT CHARACTERISTI	
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Finish: Low Gloss

Color: Reddish Gray

Volume Solids: 64% ± 2%

Weight Solids: 81.4% ± 2%

VOC (EPA Method 24): <340 g/L; 2.80 lb/gal

Recommended Spreading Rate per coat:			
	Minimum	Maximum	
Wet mils (microns)	5.0 (125)	8.0 (200)	
Dry mils (microns)	3.0 (75)	5.0 (125)	
~Coverage sq ft/gal (m²/L)	204 (5.0)	340 (8.3)	
Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft	976 (23.9)		
NOTE: Brush or roll application	mav require mu	Itiple coats to	

achieve maximum film thickness and uniformity of appearance

Drying Schedule @ 5.0 mils wet (125 microns):

		@ 40°F/4.5°C	@ 77°F/25°C	@ 100°F/38°C
			50% RH	
_	_	. .		

To touch: 2 hours 20 minutes 40 minutes To handle: 8 hours 6 hours 2 hours

To recoat:

2 hours minimum: 8 hours 6 hours maximum: 12 months 12 months 12 months To cure: 4 days 3 days 1 day Drying time is temperature, humidity, and film thickness dependent.

Shelf Life: 12 months, unopened

Store indoors at 40°F (4.5°C) to

100°F (38°C).

Flash Point: 110°F (43°C), PMCC

VOC Restricted Areas (<340 g/L): Reducer*/Clean Up:

R7K111

*Other areas (<420 g/L): Reducer #15, R7K15. Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

RECOMMENDED USES

- Intermediate coat for lead overcoating system
- Ideal for stripe coating over primed surfaces
- Superior coverage on edges and bridging over cracks due to micaceous iron oxide
- Must be topcoated for exterior use
- Conforms to AWWA D102, OCS #2
- Acceptable for use as a primer or intermediate coating
- Meets requirements of SSPC Paint Spec No. 41
- Acceptable for use as a primer

PERFORMANCE CHARACTERISTICS

Substrate*: Steel

Surface Preparation*: SSPC-SP6/NACE 3

System Tested*:

ct. Corothane I GalvaPac Zinc Primer @ 3.0 mils (75 microns) dft

1 ct. Corothane I IronOx B @ 3.0 mils (75 microns) dft 1 ct. Corothane I IronOx A @ 3.0 mils (75 microns) dft

*unless otherwise noted below

Test Name Test Method Results ASTM D4060, CS17 Ahrasion wheel, 1000 cycles, 21 mg loss Resistance 1 kg load Adhesion **ASTM D4541** 1000 psi **Direct Impact ASTM D2794** 80 in. lbs. Resistance 250°F (121°C) **Dry Heat Resistance ASTM D2485** ASTM D522, 180° Flexibility **Passes** bend, 7/16" mandrel ASTM D4585, 100°F Moisture Condensa-**Passes** tion Resistance (38°C), 300 hours **Pencil Hardness ASTM D3363** 2H ASTM B117, 2500 Salt Fog Resistance **Passes** hours Wet Heat Resistance Non-immersion 180°F (82°C)



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		Dry Film Thi	ckness / ct. (Microns)
Steel:			
1 ct.	Corothane I GalvaPac Zinc Primer	3.0-4.0	(75-100)
1 ct.	Corothane I IronOx B	3.0-5.0	(75-125)
1 ct.	Corothane I IronOx A HS	2.5-3.5	(63-88)
Steel:			
1 ct.	Corothane I PrePrime	1.5-2.0	(40-50)
1 ct.	Corothane I IronOx B	3.0-5.0	(75-125)
1 ct.	Corothane I IronOx A HS	2.5-3.5	(63-88)
Concre	ete, smooth:		
1 ct.	Corothane I PrePrime	1.5-2.0	(40-50)
1 ct.	Corothane I IronOx B	3.0-5.0	(75-125)
1 ct.	Corothane I IronOx A HS	2.5-3.5	(63-88)
Concre	ete, rough:		
1 ct.	Kem Cati-Coat HS Epoxy Filler/Sea as required to fill voids and provide a		(250-750)
1 ct	Corothane I IronOx B	3.0-5.0	(75-125)
1 ct.	Corothane I Aliphatic Finish Coat	2.0-3.0	(50-75)
	Corotilano i / inpriatio i inioni Coat	2.0 0.0	(00 10)

Previously Painted Surfaces:

Spot prime bare steel with 1 coat of Corothane I GalvaPac Zinc Prim			
1 ct.	Corothane I IronOx B	3.0-5.0	(75-125)
1 ct.	Corothane I IronOx A HS	2.5-3.5	(63-88)

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

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: SSPC-SP6/NACE 3

* Concrete: SSPC-SP13/NACE 6
Previously Painted SSPC-SP2 or SP3, or ICRI
No. 310.2R, CSP 1-3

* Primer required

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

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TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature:

air and surface: 20°F (-7°C) minimum, 100°F (38°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: 1 gallon (3.78L) and 5 gallon (18.9L)

containers

Weight: $13.8 \pm 0.2 \text{ lb/gal}$; 1.65 Kg/L

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.

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.



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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

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 / 50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910. Primer required.

Follow the standard methods listed below when applicable:

ASTM D4258 Standard Practice for Cleaning Concrete. ASTM D4259 Standard Practice for Abrading Concrete. ASTM D4260 Standard Practice for Etching Concrete.

ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.

SSPC-SP 13/Nace 6 Surface Preparation of Concrete. ICRI No. 310.2R Concrete Surface Preparation.

Previously Painted Surfaces

If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, or if this product attacks the previous finish, removal of the previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

	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	Rusted	C St 2	C St 2	SP 2	-
Harid 1001 Clearling	Pitted & Rusted		D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
Power Tool Cleaning	Pitted & Rusted	D St 3	D St 3	SP 3	-

APPLICATION CONDITIONS

Temperature:

air and surface: 20°F (-7°C) minimum, 100°F (38°C)

maximum

material: 45°F (7°C) 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:VOC Restricted Areas (<340 g/L): R7K111

*Other areas (<420 g/L): Reducer #15, R7K15. Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

Airless Spray

Pressure 1800 - 2000 psi Hose 1/4" ID Tip .013"017" Filter 60 mesh Reduction As needed up to 10% by volume	Pump	.30:1
Tip013"017" Filter60 mesh	Pressure	.1800 - 2000 psi
Filter60 mesh	Hose	.1/4" ID
	Tip	013"017"
ReductionAs needed up to 10% by volume	Filter	.60 mesh
	Reduction	.As needed up to 10% by volume

Conventional Spray

Unit	<u>Graco</u>	<u>Binks</u>
Gun	900	95
Fluid Nozzle	070	66/65
Air Nozzle	947	66PR
Atomization Pressure	60-70 psi	60-70 psi
Fluid Pressure	15-20 psi	15-20 psi
Reduction		

Brush

DIUSII	.Natural Dristle	
Reduction	.As needed up to	10% by volume

Notural Priatla

Roller

Cover	1/4" natural or synthetic with
	solvent resistant core
Reduction	As needed up to 10% by volume

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



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failure in these areas.

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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mix paint thoroughly prior to use with a low speed power agitator. Filter slowly through a 55 mesh screen.

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

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	5.0 (125)	8.0 (200)
Dry mils (microns)	3.0 (75)	5.0 (125)
~Coverage sq ft/gal (m²/L)	204 (5.0)	340 (8.3)
Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft	976 (23.9)	

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

Drving Schedule @ 5.0 mils wet (125 microns):

	@ 40°F/4.5°C	@ 77°F/25°C	@ 100°F/38°C	
		50% RH		
To touch:	2 hours	40 minutes	20 minutes	
To handle:	8 hours	6 hours	2 hours	
To recoat:				
minimum:	8 hours	6 hours	2 hours	
maximum:	12 months	12 months	12 months	
To cure:	4 days	3 days	1 day	
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.

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

SAFETY PRECAUTIONS

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CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Reducer #15, R7K15. Clean tools immediately after use with Reducer #15, R7K15. 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

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

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, and adhesion.

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

Pour a small amount of Reducer #15, R7K15 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.

Corothane KA Accelerator is acceptable for use. See its data page for details.

Must be topcoated for exterior use.