



**Protective
&
Marine
Coatings**

COROBOND™ CONDUCTIVE EPOXY PRIMER

PART A
PART B

B62B440
B62V440

BLACK
HARDENER

Revised June 14, 2016

PRODUCT INFORMATION

TRM.74

PRODUCT DESCRIPTION

COROBOND CONDUCTIVE EPOXY PRIMER is a 100% solids, conductive epoxy primer, formulated for use on concrete to provide uniform electrical conductivity.

- No VOCs
- Low odor
- Easy to install
- Long working time, extended recoat window
- Excellent bond to concrete substrate
- Meets conductivity requirements of NFPA 99/ASTM F150

PRODUCT CHARACTERISTICS

Finish:	Gloss
Color:	Black
Volume Solids:	100%, calculated, mixed
VOC (calculated):	<200 g/L; 1.7 lb/gal, mixed
Mix Ratio:	2.5:1

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	2.0 (50)	4.0 (100)
Dry mils (microns)	2.0 (50)	4.0 (100)
~Coverage sq ft/gal (m²/L)	400 (9.8)	800 (19.6)
Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft	1600 (39.2)	

Drying Schedule @ 4.0 mils wet (100 microns):

**@ 73°F/23°C
50% RH**

To touch: 5 hours

***To recoat:**

minimum: 12 hours

maximum: 48 hours

To cure: 7 days

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

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

*Maximum recoat interval may be shorter when using Polyurea topcoats. Refer to topcoat data page.

Pot Life: 60 minutes (1 gallon/3.78L mass, ASTM D2471)

Sweat-in-time: None required

Shelf Life: 36 months, unopened
Store indoors at 40°F (4.5°C) to 100°F (38°C).

Viscosity: 200,000 cps

Reducer: Not recommended

Clean Up: Xylene, R2K4

RECOMMENDED USES

Corobond Conductive Epoxy Primer is used in immersion or atmospheric exposure as a conductive primer with tank lining and secondary containment systems when holiday testing will be performed.

Complies with the requirements for conductive underlayments in ASTM D4787, Standard Practice for Continuity Verification of Liquid or Sheet Linings applied to Concrete Surfaces.

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Adhesion	ASTM D4541	350 psi, 100% concrete failure
Surface Electrical Resistance, Conductivity	NFPA 99 / ASTM F150 / ESD-S7.1	25,000 - 200,000 ohms



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RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
Concrete (lining, containment, flooring): Medium Film Lining			
1 ct.	Corobond Conductive Epoxy Primer	2.0-4.0	(50-100)
1 ct.	Steel-Seam FT910 as required for filling voids/bugholes on concrete		
2 cts.	Cor-Cote HCR FF Flake Filled Epoxy	15.0-20.0	(375-500)
Concrete (containment, flooring, with flexible base coat): Laminate			
1 ct.	Corobond Conductive Epoxy Primer	2.0-4.0	(50-100)
1 ct.	Sher-Tuff Flexible Epoxy	20.0-30.0	(500-750)
1 ct.	Cor-Cote HCR (clear) with 1 oz glass mat (with glass mat)	20.0-30.0	(500-750)
2 cts.	Cor-Cote HCR FF Flake Filled Epoxy	15.0-20.0	(375-500)
Concrete (lining, containment, flooring): Mortar Laminate			
1 ct.	Corobond Conductive Epoxy Primer	2.0-4.0	(50-100)
1 ct.	Cor-Cote HCR Epoxy (Clear) with 50 lbs Type M Aggregate per 1.25 gallons (4.73L)	60.0-70.0	(1500-1750)
1 ct.	1.0 oz. glass mat with Cor-Cote HCR Epoxy (Clear) saturant (with glass mat)	20.0-30.0	(500-750)
1 ct.	Cor-Cote HCR FF Flake Filled Epoxy	15.0-20.0	(375-500)
Heavy Duty Mortar Laminate			
1 ct.	Corobond Conductive Epoxy Primer	2.0-4.0	(50-100)
1 ct.	Cor-Cote HCR Epoxy (Clear) with 50 lbs Type M Aggregate per 1.25 gallons (4.73L)	60.0-70.0	(1500-1750)
1 ct.	10.0 oz. woven roving fiberglass mat with Cor-Cote HCR Epoxy (Clear) saturant (with woven roving)	30.0-45.0	(750-1125)
1 ct.	Cor-Cote HCR Epoxy Coating (Clear) with 50 lbs Type M Aggregate per 1.25 gallons (4.73L)	60.0-70.0	(1500-1750)

Use Corobond Conductive Epoxy Primer under all Epoxy systems over concrete and masonry that require compliance with ASTM D4787 "Standard Practice for Continuity Verification of Liquid or Sheet Linings Applied to Concrete Surfaces"

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

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.

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:

Concrete & Masonry:
Atmospheric: SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 3-6*
Immersion: SSPC-SP13/NACE 6-4.3.1 or 4.3.2, or ICRI No. 310.2R, CSP 3-6*

*Refer to System Selection Guide

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

TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature: 50°F (10°C) minimum, 90°F (32°C) maximum (air, surface, material)
At least 5°F (2.8°C) above dew point
Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging:
Part A: 2.5 gallons (9.5L) in a 5 gallon (18.9L) pail
Part B: 1 gallon (3.78L)

SAFETY PRECAUTIONS

Refer to the MSDS 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.

Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 3-6*. 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.

Concrete, Immersion Service:

For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICRI No. 310.2R, CSP 3-6*.

*Refer to System Selection Guide

APPLICATION CONDITIONS

- Temperature: 50°F (10°C) minimum, 90°F (32°C) maximum (air, surface, material)
At least 5°F (2.8°C) above dew point
- Relative humidity: 85% 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.

Reduction Not recommended

Cleanup Xylene, R2K4

Brush

Brush..... Natural bristle for applications in small areas

Roller

Cover 3/8" nap rollers, acceptable for "back-rolling" only

Squeegee

Flat squeegee Apply material evenly to recommended spreading rate. Back-roll with 3/8" nap roller to provide a uniform film

Trowel

Flat trowel Apply material evenly to recommended spreading rate. Back-roll with 3/8" nap roller to provide a uniform film

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

Surface Preparation Standards

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



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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

For detailed installation instructions, refer to the Installation Procedures for the respective system type in the ControlTech Technical Resource Manual.

Mixing Instructions: Premix components separately using a low-speed drill and Jiffy Blade model ES mixer. Make certain no pigment remains on the bottom or sides of the can. Combine one part by volume of Part B to two and one-half parts by volume of Part A. Add the B into the short-filled A bucket. Mix with low-speed drill and Jiffy Blade model ES mixer for three minutes and until uniform. For best results, pour the mixed material into a separate container and continue to mix for 2 minutes.

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

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	2.0 (50)	4.0 (100)
Dry mils (microns)	2.0 (50)	4.0 (100)
~Coverage sq ft/gal (m ² /L)	400 (9.8)	800 (19.6)
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	1600 (39.2)	

Drying Schedule @ 4.0 mils wet (100 microns):

@ 73°F/23°C
50% RH

To touch: 5 hours

***To recoat:**

minimum: 12 hours

maximum: 48 hours

To cure: 7 days

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

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

*Maximum recoat interval may be shorter when using Polyurea topcoats. Refer to topcoat data page.

Pot Life: 60 minutes (1 gallon/3.78L mass, ASTM D2471)

Sweat-in-time: None required

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 Xylene, R2K4. Clean tools immediately after use with Xylene, R2K4. Follow manufacturer's safety recommendations when using any solvent.

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PERFORMANCE TIPS

For concrete, always perform Calcium Chloride test as per ASTM F1869. Do not proceed with MVE >3 lbs.

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.

Corobond Conductive Epoxy Primer is a very viscous (thick) material. Do not apply by roller. Place material onto the substrate and spread with a flat squeegee or trowel and back roll to required wft.

Always test conductive primer for proper conductivity range prior to continuing.

For Immersion Service: (if required) Holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.

Allow primer to become tacky prior to application of subsequent applications. If planning to delay applications until after the primer has fully cured, lightly sprinkle 40-60 mesh silica sand onto primer prior to curing. Adhere to drying schedule recoat times as outlined in the Application Procedures.

Consult your Sherwin-Williams representative for specific application and performance recommendations.

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

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