



Protective & Marine Coatings

COROBOND™ 100 EPOXY PRIMER/SEALER

PART A
PART B

B58-5100
B58V5100

SERIES
HARDENER

Revised: November 16, 2020

PRODUCT INFORMATION

TRM.73

PRODUCT DESCRIPTION

COROBOND 100 EPOXY PRIMER/SEALER is a high solids, low viscosity, penetrating epoxy primer/sealer formulated specifically for use over concrete surfaces in secondary containment environments.

- Helps prevent "blow-back" and "outgassing"
- Low viscosity
- Fast dry
- Superior penetrating characteristics
- Improved visibility during application

PRODUCT CHARACTERISTICS

Finish:	Flat sheen
Color:	Off White, Haze Gray
Volume Solids:	100%, mixed
VOC (calculated):	<100 g/l; .83 lb/gal, mixed
Mix Ratio:	2:1 by volume, premeasured

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	4.0 (100)	6.0 (150)
Dry mils (microns)	4.0 (100)	6.0 (150)
~Coverage sq ft/gal (m ² /L)	265 (6.5)	400 (9.8)
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	1604 (39.4)	

Apply primer to achieve uniform hiding, appearance, and complete wetting of the concrete surface, approximately 4.0-6.0 mils (100-150 microns) wft. Coating will be partially absorbed into the concrete. Roll out any puddles.

Drying Schedule @ 5.0 mils wet (125 microns):

@ 77°F/25°C

50% RH

To touch: 2 hours

To recoat:

minimum: 3 hours

maximum: 24 hours*

To cure: 7 days

*Can be topcoated up to 30 days after application with Phenicon HS, Phenicon HS FF, Cor-Cote HCR, Cor-Cote RPP, Macropoxy 646, Sher-Glass FF, or Steel-Seam FT910. 30 day recoat acceptable for non-immersion or secondary containment applications. Check adhesion as necessary.

Primer can be topcoated even if the surface is still tacky.

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

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

Pot Life: 45 minutes

Sweat-in-time: None required

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

Flash Point: 100°F (38°C), PMCC, mixed

Reduction: Not recommended

Clean Up: Reducer #54, R7K54

RECOMMENDED USES

- Corobond 100 can be used on all bare concrete surfaces where a 2 part epoxy, penetrating primer is recommended. Its low viscosity and quick recoat time allow it to be used for areas that need a fast turnaround.
- Secondary Containment
- Designed specifically as a high performance primer sealer for secondary containment applications
- Suitable for use in the Mining & Minerals Industry

PERFORMANCE CHARACTERISTICS

A high performance primer/sealer for new or existing bare concrete surfaces

Helps prevent "blow-back" and "outgassing" of topcoats superior penetrating characteristics

Superior penetrating characteristics

Refer to applicable topcoat for additional performance information

White in color to provide contrast with concrete

Excellent penetrating properties to provide a "tight and sound" substrate prior to subsequent topcoats

Can recoat while primer is still tacky

Designed to be topcoated



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RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
Concrete, Secondary Containment:			
Concrete & Masonry:			
1 ct.	Corobond 100 Epoxy Primer/Sealer	4.0-6.0	(100-150)
Apply primer to achieve uniform hiding, appearance, and complete wetting of the concrete surface. Coating will be partially absorbed into the concrete. Roll out any puddles.			
1-2 cts.	Kem Cati-Coat HS Epoxy Filler/Sealer, as required to fill voids and bugholes to provide a continuous substrate.	10.0-20.0	(250-500)
1-2 cts.	Cor-Cote E.N. 7000 Epoxy Novolac Coating	10.0-14.0*	(250-350)*

*Dependent on the severity of the environment, other acceptable topcoats may include Cor-Cote HCR FF, Phenicon HS, or Shelcote II.

Mortar System:

1 ct.	Corobond 100 Epoxy Primer/Sealer	4.0-6.0	(100-150)
1 ct.	Cor-Cote HCR Epoxy with 70 lbs Type T Aggregate per 1.25 gallons/3/16" dft yields 44 sq. ft.		
1 ct.	Cor-Cote HCR Epoxy	15.0-20.0	(375-500)
1 ct.	Cor-Cote HCR FF Flake Filled Epoxy	15.0-20.0	(375-500)

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:

Concrete & Masonry: SSPC-SP13/NACE 6, or
ICRI No. 310.2R, CSP 3-6

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	Pitted & Rusted	D St 3	D St 3	SP 3

TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature:	55°F (13°C) minimum, 100°F (38°C) maximum (air, surface, and 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:

3 gallon (11.3L) mix	Part A: 2 gallons (7.56L) Part B: 1 gallon (3.78L)
15 gallon (75L) mix	Part A: Two 5 gallon (18.9L) containers Part B: One 5 gallon (18.9L) container

Weight: 9.5 ± 0.2 lb/gal ; 1.15 Kg/L, mixed

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

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APPLICATION BULLETIN

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SURFACE PREPARATIONS

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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.

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.

APPLICATION CONDITIONS

Temperature: 55°F (13°C) minimum, 100°F (38°C) maximum
(air, surface, and 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.

ReductionNot recommended

Clean UpReducer #54, R7K54

Airless Spray

Pump.....30:1 minimum
Hose.....3/8" ID
Tip0.019"
Filter.....60 mesh

Brush

Brush.....Natural Bristle

Roller

Cover3/8" woven with solvent resistant core

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	Rust	C St 2	SP 2	-
Pitted & Rust	D St 2	D St 2	SP 2	-
Rust	C St 3	C St 3	SP 3	-
Power Tool Cleaning	Pitted & Rust	D St 3	SP 3	-



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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions: Mix components only after all surfaces are completely prepared and ready to be coated. Thoroughly agitate each component using low speed mechanical agitation, i.e., Jiffy Blade model ES. Then combine 2 parts by volume of Part A with 1 part by volume Part B. Using mechanical agitation, Jiffy Blade ES, thoroughly mix material for three minutes at 250 rpm. Only mix full units. Be sure to mix material from the bottom and sides of the containers.

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

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	4.0 (100)	6.0 (150)
Dry mils (microns)	4.0 (100)	6.0 (150)
~Coverage sq ft/gal (m ² /L)	265 (6.5)	400 (9.8)
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Apply primer to achieve uniform hiding, appearance, and complete wetting of the concrete surface, approximately 4.0-6.0 mils (100-150 microns) wft. Coating will be partially absorbed into the concrete. Roll out any puddles.

Drying Schedule @ 5.0 mils wet (125 microns):

@ 77°F/25°C

50% RH

To touch:

2 hours

To recoat:

minimum: 3 hours

maximum: 24 hours*

To cure:

7 days

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Primer can be topcoated even if the surface is still tacky.

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

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

Pot Life: 45 minutes

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 Reducer #54, R7K54. Clean tools immediately after use with Reducer #54, R7K54. Follow manufacturer's safety recommendations when using any solvent.

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PERFORMANCE TIPS

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.

No reduction of material is recommended as it can affect film build, appearance, and adhesion.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer #54, R7K54.

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

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