



Protective & Marine Coatings

COR-COTE® HP HIGH PERFORMANCE EPOXY

PART A
PART B

B62-410
B62V410

SERIES
HARDENER

Revised: January 19, 2022

PRODUCT INFORMATION

TRM.16

PRODUCT DESCRIPTION

COR-COTE HP HIGH PERFORMANCE EPOXY is a 100% solids, self-leveling epoxy formulated for ease of installation. The outstanding broad spectrum chemical resistance of this product provides protection in chemical environments while maintaining properties such as gloss and stain resistance.

- Stain resistant, high gloss finish
- Chemical resistant
- Low odor
- Low viscosity for ease of workability

PRODUCT CHARACTERISTICS

Finish:	Gloss
Color:	Haze Gray and Clear
Volume Solids:	100%, mixed
VOC (calculated):	<100 g/L; 0.83 lb/gal, mixed
Mix Ratio:	2:1

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	5.0 (125)	10.0 (250)
Dry mils (microns)	5.0 (125)	10.0 (250)
~Coverage sq ft/gal (m ² /L)	160 (3.9)	320 (7.8)
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	1604 (39.4)	

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

Drying Schedule @ 5.0 mils wet (125 microns):

@ 73°F/23°C
50% RH

To touch:	6 hours
To recoat:	
minimum:	8 hours
maximum:	7 days
Light traffic:	24 hours
To cure:	7 days

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 Store indoors at 40°F (4.5°C) to 100°F (38°C)
Viscosity (mixed):	750 cps
Reducer:	Not recommended
Clean Up:	Xylene, R2K4

RECOMMENDED USES

Used as a coating for Medium Film Lining Systems and as a binder resin with select aggregate to produce a Mortar System, Self-Leveling Mortar System, Self-Leveling Mortar Broadcast System, Mortar Laminate System, or Heavy Duty Mortar Laminate System. These systems protect concrete and steel surfaces in immersion and atmospheric exposure.

Ideally suited for coating, lining, containment and flooring applications in various facilities including:

- Automotive
- Chemical processing
- Electronics
- Food and beverage
- Metal and mining
- Pharmaceutical
- Power
- Pulp and paper
- Water and wastewater
- Petrochemical
- Acceptable for use in USDA inspected facilities

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance (coating)	ASTM D4060, CS17 wheel, 1kg load, 1000 cycles	70 mg loss
Adhesion	ASTM D4541	Concrete - 350 psi; Steel - 1200 psi
Coefficient of Linear Thermal Expansion	ASTM C531 (in/in/°F)	Self-leveling - 13 x 10 ⁻⁶ ; Mortar - 13 x 10 ⁻⁶ ; Mortar laminate - 12 x 10 ⁻⁶
Compressive Strength	ASTM C579	Self-leveling - 12,000 psi; Mortar - 10,000 psi; Mortar laminate - 10,000 psi
Durometer Hardness (coating)	ASTM D2240	Shore D - 70
Flexural Strength	ASTM C580	Self-leveling - 4,700 psi; Mortar - 4,200 psi; Mortar laminate - 8,000 psi
Tensile Strength	ASTM C307	Self-leveling - 5,500 psi; Mortar - 2,000 psi; Mortar laminate - 4,500 psi



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RECOMMENDED SYSTEMS

Dry Film Thickness / ct.
Mils (Microns)

Concrete or Steel (coating, lining, containment, flooring): Medium Film Coating

1 ct. *For Steel:* Dura-Plate UHS Primer 4.0-8.0 (100-200)
For Concrete: Corobond 100 Epoxy 4.0-6.0 (100-150)
Primer/Sealer

1 ct. Steel-Seam FT910 as required for filling pits and
transitioning sharp edges, weld seams, etc. on steel or
Steel-Seam FT910 for filling voids and bugholes on
concrete

2 cts. Cor-Cote HP Epoxy 5.0-10.0*(125-250)*
Vertical surfaces may require multiple coats of Cor-Cote HP to
achieve the desired dry film thickness.

**May be applied at higher film thicknesses per coat when used
as a self-leveling floor coating.*

Heavy Duty Mortar Laminate

1 ct. *For Steel:* Dura-Plate UHS Primer 4.0-8.0 (100-200)
For Concrete: Corobond 100 Epoxy 4.0-6.0 (100-150)
Primer/Sealer

1 ct. Steel-Seam FT910 as required for filling pits and
transitioning sharp edges, weld seams, etc. on steel or for
filling voids and bugholes on concrete

1 ct. Cor-Cote HP Epoxy (Clear) with 18-20 lbs
Type M Aggregate per 1.5 gallons 60.0-65.0 (1500-1625)
(5.7L) yields 75-80 sq. ft. (1.8-2.0 m²/L)

1 ct. 10.0 oz. woven roving fiberglass mat
with Cor-Cote HP Epoxy (Clear) 30.0-45.0 (750-1125)
saturant
(with woven roving)

1 ct. Cor-Cote HP Epoxy (Clear) with 18-20 lbs
Type M Aggregate per 1.5 gallons 60.0-65.0 (1500-1625)
(5.7L) yields 75-80 sq. ft. (1.8-2.0 m²/L)

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:

Iron & Steel:
Atmospheric: SSPC-SP6/NACE 3, 2 mil (50 micron) profile
Immersion: SSPC-SP10/NACE 2, 2-3 mil
(50-75 micron) profile

Concrete & Masonry:
Atmospheric: SSPC-SP13/NACE 6, or
ICRI No. 310.2R CSP 3-5
Immersion: SSPC-SP13/NACE 6-4.3.1, or
4.3.2 or ICRI No. 310.2R CSP 3-5

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: 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 gallons (7.56L) in a 3 gallon (11.3L) container and 5 gallons (18.9L)
Part B: 1 gallon (3.78L) and 5 gallons (18.9L)

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 (2-3 mils / 50-75 microns). Remove all weld spatter and round all sharp edges. 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 / 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 3-5. 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 3-5.

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 & Rusty	D St 2	D St 2	SP 2	-
Rusty	C St 3	C St 3	SP 3	-
Power Tool Cleaning	D St 3	D St 3	SP 3	-

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.

ReductionNot recommended

CleanupXylene, R2K4

Airless Spray:

Pump.....Graco Extreme, 68:1
GunGraco XTR
Fluid Hose.....3/8" - 1/2" ID
Tip Orifice......023" - .027"
Fan Width at 12"12"
Fluid Pressure.....2800 - 3100 psi
Filter Screen.....60 mesh
Transfer Pump5:1 ratio each side
Static Mixing Tube.....1/2" ID with 32 turns

Brush:

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

Roller:

Cover3/8" nap for coatings
Ribbed roller.....For mortar laminate applications

Trowel:

Notched trowel.....For self-leveling applications
Flat trowelFor mortar applications

Squeegee:

Notched squeegeeFor self-leveling applications
Flat squeegeeFor coating applications

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



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APPLICATION PROCEDURES

Consult your Sherwin-Williams Representative for detailed installation instructions.

Surface preparation must be completed as indicated.

Mixing Instructions:

Premix individual 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 parts by volume of Part A. Mix with low speed drill and Jiffy Blade model ES mixer for three minutes and until uniform.

For coatings applications:

Combine parts A and B as instructed above. To insure that no unmixed materials remain on the sides and bottom of the cans after mixing, visually observe the container by pouring the material into a separate container. Marbled or streaky appearance is an indication of improper mixing. Apply via brush, roller or spray to the film thickness and spreading rate indicated below. Vertical surfaces may require 3-4 coats to achieve the desired dry film thickness.

Recommended Spreading Rate per coat as a coating:*

*Varies with system and application. See recommended systems. Not to be used as a stand alone coating.

For self-leveling applications:

Combine Parts A and B as instructed above. Slowly add Type S aggregate at 19 to 22 pounds per 1.5 gallons (5.7L) of mixed resin in a mortar mixer. Blend materials until no lumps remain and the aggregate is uniformly mixed with the resin. Apply via notched trowel and/or squeegee to desired thickness. Apply topcoats as indicated, following application procedures of the products listed in recommended systems

For mortar applications:

Combine Parts A and B as instructed above. Slowly add Type M aggregate at 20 pounds per gallon to the mixed resin in a mortar mixer. Blend materials until no lumps remain and the aggregate is uniformly mixed with the resin. Apply via screed and/or hand trowel to desired thickness. Apply topcoats as indicated, following application procedures of the products listed in recommended systems

For mortar laminate applications:

Combine Parts A and B as instructed above. Slowly add Type M aggregate at 18-20 pounds per 1.5 gallons (5.7L) to the mixed resin in a mortar mixer. Blend materials until no lumps remain and the aggregate is uniformly mixed with the resin. Apply via hand trowel to desired thickness. Apply topcoats as indicated, following application procedures of the products listed in recommended systems.

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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APPLICATION GUIDELINES

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)	10.0 (250)
Dry mils (microns)	5.0 (125)	10.0 (250)
~Coverage sq ft/gal (m ² /L)	160 (3.9)	320 (7.8)
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	1604 (39.4)	

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

Drying Schedule @ 5.0 mils wet (125 microns):

@ 73°F/23°C

50% RH

To touch: 6 hours

To recoat:

minimum: 8 hours

maximum: 7 days

Light traffic: 24 hours

To cure: 7 days

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.

PERFORMANCE TIPS

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

For steel, stripe coat all chine, welds, bolted connections, and sharp angles to prevent early failure in these areas.

Pot life of this material is moderately short. Working time can be extended by mixing small batches and by getting material out of mixing containers and on to the working surface in desired film thickness as quickly as possible.

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.

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

Do not apply material beyond recommended pot life.

Do not mix previously catalyzed material with new.

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

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

SAFETY PRECAUTIONS

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