



# Protective & Marine Coatings

# COR-COTE® HT TANK LINING AND HI-TEMP COATING

PART A	B62A290	LIGHT GRAY
PART A	B62A291	HAZE GRAY
PART B	B62V290	HARDENER
PART B	B62V291	LOW TEMP HARDENER

Revised March 16, 2018

## PRODUCT INFORMATION

TRM.53

### PRODUCT DESCRIPTION

**COR-COTE HT HI-TEMP COATING** is an epoxy novolac amine formulated for use under thermal insulation at elevated temperatures and for immersion service in water and hydrocarbon commodities such as gasoline, fuel oil, and diesel fuel at ambient and elevated temperatures.

- Temperature resistant to 425°F (218°C), in areas subject to wet/dry cycling
- Self priming
- Chemical resistant
- Resistant to thermal shock
- Ambient temperature cure
- High build / edge retention in one coat

### PRODUCT CHARACTERISTICS

<b>Finish:</b>	Semi-Gloss
<b>Colors:</b>	Light Gray and Haze Gray
<b>Volume Solids:</b>	85% ± 2%, mixed
<b>Weight Solids:</b>	90% ± 2%, mixed
<b>VOC (calculated):</b>	140 g/L; 1.2 lb/gal
<b>Mix Ratio:</b>	4:1 by volume

### Recommended Spreading Rate per coat:

	Minimum	Maximum
<b>Wet mils (microns)</b>	<b>9.0</b> (225)	<b>11.0</b> (275)
<b>Dry mils (microns)</b>	<b>8.0</b> (200)	<b>10.0*</b> (250)*
<b>~Coverage sq ft/gal (m<sup>2</sup>/L)</b>	<b>140</b> (3.4)	<b>180</b> (4.4)
<b>Theoretical coverage sq ft/gal (m<sup>2</sup>/L) @ 1 mil / 25 microns dft</b>	<b>1440</b> (35)	

\*See recommended systems.

### Drying Schedule @ 10.0 mils wet (250 microns):

<b>With B62V290:</b>	<b>@ 50°F/10°C</b>	<b>@ 77°F/25°C</b>	<b>@ 100°F/38°C</b>
		<b>50% RH</b>	
<b>To touch:</b>	12 hours	5 hours	2 hours
<b>To handle:</b>	39 hours	16 hours	6 hours
<b>To recoat (itself):</b>			
<b>minimum:</b>	39 hours	16 hours	6 hours
<b>maximum:</b>	21 days	21 days	14 days
<b>To cure:</b>	21 days	7 days	5 days

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

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

Topcoat within 72 hours if using a silicone acrylic.

<b>Pot Life:</b>	2 hours	60 minutes	30 minutes
<b>Sweat-in-time:</b>		None required	

### Drying Schedule @ 8.0 mils wet (200 microns):

<b>With B62V291*:</b>	<b>@ 35°F/1.7°C</b>
	<b>50% RH</b>
<b>To touch:</b>	15 hours
<b>To handle:</b>	24 hours
<b>To recoat (itself):</b>	
<b>minimum:</b>	24 hours
<b>maximum:</b>	7 days
<b>To cure:</b>	7 days

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

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

Topcoat within 72 hours if using a silicone acrylic.

<b>Pot Life:</b>	<2 hours
<b>Sweat-in-time:</b>	None Required

### PRODUCT CHARACTERISTICS (CONT'D)

\*Maximum recommended application temperature, when using B62V291 (Low Temp Hardener) is 55°F (13°C).

<b>Shelf Life:</b>	24 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C).
<b>Flash Point:</b>	117°F (47°C) mixed
<b>Reducer/Clean Up:</b>	MEK R6K10

### RECOMMENDED USES

- Steel and stainless steel tanks and piping under insulation
- Non-insulated structural steel and piping subjected to chemical or abrasion attack
- Use in areas subject to wet/dry cycling up to 425°F (218°C)
- Use in areas where intermittent temperature resistance up to 450°F (232°C) is required (dry service)
- Suitable for storage of gasoline, fuel oil, diesel fuel, and other similar hydrocarbon cargos
- Not certified for potable water immersion
- Water and wastewater facilities

### PERFORMANCE CHARACTERISTICS

**Substrate\*:** Steel  
Complies with NACE SP0198 CUI System CS-4

**Surface Preparation\*:** SSPC-SP10/NACE 2

**System Tested\*:**

1 ct. Cor-Cote HT @ 10.0 mils (250 microns) dft

\*unless otherwise noted below

Test Name	Test Method	Results
<b>Abrasion Resistance</b>	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	60 mg loss
<b>Adhesion</b>	ASTM D4541	1200 psi
<b>Control of Corrosion under Thermal Insulation (Wet/Dry Thermal Cycling)</b>	NACE RP0198	Passes System #5, up to 425°F (218°C)
<b>Dry Heat Resistance</b>	ASTM D2485	425°F (218°C), constant; 450°F (232°C), intermittent
<b>Pencil Hardness</b>	ASTM D3363	4H

### RESISTANCE GUIDE - IMMERSION (Ambient Temperature)\*

- Alkalies..... Recommended
- Crude oil..... Recommended
- Diesel fuel..... Recommended
- Lubricating oils..... Recommended
- Fuel oils..... Recommended
- Aromatic solvents..... Recommended
- Hi-aromatic gasoline..... Recommended
- Ethanol..... Recommended
- MTBE, ETBE, TAME..... Recommended
- Ether/fuel blends (reformed gas)..... Recommended
- Water, salt water, distilled water, & demineralized water..... Recommended
- Methanol..... Not Recommended

Consult your Sherwin-Williams representative for specific application, temperature, concentration, and exposure recommendations.

Epoxy coatings may darken or yellow after application and curing.  
\*For elevated temperature recommendations, please contact your SW Representative.



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### RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
<b>Steel/Stainless Steel, high temperature resistance:</b>			
1 ct.	Cor-Cote HT	8.0-10.0*	(200-250)*
<i>or</i>			
2 cts.	Cor-Cote HT	4.0-5.0*	(100-125)*
<b>Steel/Stainless Steel, atmospheric:</b>			
1 or 2 cts.	Cor-Cote HT	8.0-10.0	(200-250)
<b>Steel, immersion/tank lining (new or unpitted steel):</b>			
2 cts.	Cor-Cote HT	5.0-8.0	(125-200)
<b>Steel, immersion/tank lining (pitted steel):</b>			
2 cts.	Cor-Cote HT	8.0-10.0	(200-250)
<b>Concrete, immersion/tank lining:</b>			
1 ct.	Kem Cati-Coat HS	10.0-20.0	(250-500)
2 cts.	Cor-Cote HT	8.0-10.0	(200-250)

\*Do not apply over 12.5 mils (313 microns) total dft for service above 300°F (149°C).

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	Immersion:	SSPC-SP10/NACE 2, 2-3 mil (50-75 micron) profile SSPC-SP11 for small areas, repairs, and touch up only
Atmospheric:		SSPC-SP6 or SSPC-SP11
Concrete	Immersion:	SSPC-SP13/NACE 6 - 4.3.1 or 4.3.2, or ICRI No. 310.2R, CSP 2-3

#### 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 7	3
Brush-Off Blast	Sa 1	SP 6	4
Hand Tool Cleaning	C St 2	SP 2	-
Pitted & Rusted	D St 2	SP 2	-
Rusted	C St 3	SP 3	-
Power Tool Cleaning	Pitted & Rusted D St 3	SP 3	-

### TINTING

For a contrasting base coat / prime coat, Part B may be tinted with up to 1-1/2 oz. per mixed gallon with Maxitoner colorant pthalo blue.

### APPLICATION CONDITIONS

Temperature:	
with B62V290:	50°F (10°C) minimum, 120°F (49°C) maximum
with B62V291:	35°F (1.7°C) minimum, 55°F (13°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:	5 gallons (18.9L), mixed
Part A	4 gallons (15.1L)
Part B	1 gallon (3.78L)
Weight:	10.65 ± 0.2 lb/gal ; 1.3 Kg/L, mixed

### 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.

### DISCLAIMER

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Revised March 16, 2018

## APPLICATION BULLETIN

TRM.53

### 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.

#### Steel/Stainless Steel, under insulation, immersion

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 / 50 microns). Remove all weld spatter and round all sharp edges. Prime any bare steel the same day as it is cleaned. SSPC-SP11 is acceptable for small areas, repairs, and touch up only. On stainless steel, use Aluminum Oxide grit. Do not use chlorinated solvents for cleaning stainless steel.

#### Steel, non-insulated, atmospheric

Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6. Power Tool Cleaning to Bare Metal per SSPC-SP11 is also acceptable. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6/NACE 3, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Remove all weld spatter and round all sharp edges by grinding. Prime any bare steel within 8 hours or before flash rusting occurs.

#### Poured Concrete

##### New

For surface preparation, refer to SSPC-SP13/NACE 6 or, ICRI No. 310.2R CSP 2-3. Surfaces must be clean, dry, sound and offer sufficient profile to achieve adequate adhesion. Minimum substrate cure is 28 days at 75°F (24°C). Remove all form release agents, curing compounds, salts, efflorescence, laitance, and other foreign matter by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. Refer to ASTM D4260. Rinse thoroughly to achieve a final pH between 8.0 and 11.0. Allow to dry thoroughly prior to coating.

##### Old

Surface preparation is done in much the same manner as new concrete, however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with a strong detergent. Refer to ASTM D4258. Form release agents, hardeners, etc. must be removed by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. If surface deterioration presents an unacceptably rough surface, Kem Cati-Coat HS Epoxy Surfacer is recommended to patch and resurface damaged concrete.

Prime all cracks, voids and bugholes with Corobond 100 and fill 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.

#### 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 2-3.

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

### APPLICATION CONDITIONS

#### Temperature:

with B62V290:	50°F (10°C) minimum, 120°F (49°C) maximum
with B62V291:	35°F (1.7°C) minimum, 55°F (13°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.

Reducer/Clean Up .....Reducer R6K10

#### Airless Spray

Pump.....	45:1 minimum
Pressure.....	3600 psi minimum
Hose.....	3/8" - 1/2" ID
Tip.....	.019" - .021"
Filter.....	30 mesh
Reduction.....	As needed, up to 5% by volume

#### Conventional Spray

Gun.....	Binks 95
Fluid Tip.....	66/65
Air Nozzle.....	66PR
Atomization Pressure.....	65 - 75 psi
Fluid Pressure.....	15 - 20 psi
Reduction.....	As needed, up to 5% by volume

#### Brush, small areas only

Brush.....	Natural Bristle
Reduction.....	As needed, up to 5% by volume

#### Roller, small areas only

Cover.....	3/8" woven with solvent resistant core
Reduction.....	As needed, up to 5% by volume

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



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Revised March 16, 2018

## APPLICATION BULLETIN

TRM.53

### APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mix contents of each component thoroughly using low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine 4 parts by volume of Part A with 1 part by volume of Part B. Thoroughly agitate the mixture with power agitation. Re-stir before using.

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

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

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	9.0 (225)	11.0 (275)
Dry mils (microns)	8.0 (200)	10.0* (250)*
~Coverage sq ft/gal (m <sup>2</sup> /L)	140 (3.4)	180 (4.4)
Theoretical coverage sq ft/gal (m <sup>2</sup> /L) @ 1 mil / 25 microns dft	1440 (35)	

\*See recommended systems.

#### Drying Schedule @ 10.0 mils wet (250 microns):

With B62V290:	@ 50°F/10°C	@ 77°F/25°C	@ 100°F/38°C
		50% RH	
To touch:	12 hours	5 hours	2 hours
To handle:	39 hours	16 hours	6 hours
To recoat (itself):			
minimum:	39 hours	16 hours	6 hours
maximum:	21 days	21 days	14 days
To cure:	21 days	7 days	5 days

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

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

Topcoat within 72 hours if using a silicone acrylic.

Pot Life:	2 hours	60 minutes	30 minutes
Sweat-in-time:		None required	

#### Drying Schedule @ 8.0 mils wet (200 microns):

With B62V291\*: @ 35°F/1.7°C

	50% RH
To touch:	15 hours
To handle:	24 hours
To recoat (itself):	
minimum:	24 hours
maximum:	7 days
To cure:	7 days

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

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

Topcoat within 72 hours if using a silicone acrylic.

Pot Life:	<2 hours
Sweat-in-time:	None Required

\*Maximum recommended application temperature, when using B62V291 (Low Temp Hardener) is 55°F (13°C).

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

### PERFORMANCE TIPS

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

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.

Do not mix previously catalyzed material with new.

Do not apply the material beyond recommended pot life.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer R6K10.

Temperatures above 77°F (25°C) will shorten the pot life.

Not certified for potable water immersion.

Excessive film build, poor ventilation, and cool temperatures may cause solvent entrapment and premature coating failure.

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

Acceptable for insulation to be applied over the coating, after the coating has reached it's dry to touch time.

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

### CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Reducer R6K10. Clean tools immediately after use with Reducer R6K10. Follow manufacturer's safety recommendations when using any solvent.

### SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

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