



Protective & Marine Coatings

TARGUARD® COAL TAR EPOXY

PART A
PART A
PART B

B69B60
B69R60
B69V60

BLACK
RED
HARDENER

Revised: June 28, 2022

PRODUCT INFORMATION

4.72

PRODUCT DESCRIPTION

TARGUARD COAL TAR EPOXY is a high build, polyamide epoxy coal tar coating.

Meets the following specifications:

- Corps of Engineers Formula C-200a
- SSPC Paint 16 Compositional Specification
- AWWA C-210, Non-Potable Water Applications

PRODUCT CHARACTERISTICS

Finish:	Semi-Gloss
Color:	Black, Red
Volume Solids:	74% ± 2%, mixed
Weight Solids:	82% ± 2%, mixed
VOC (calculated):	<250 g/L; 2.1 lb/gal, mixed
Mix Ratio:	2 component, premeasured 4:1 5 gallons mixed

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	11.0 (275)	22.0 (550)
Dry mils (microns)	8.0* (200)	16.0* (400)
~Coverage sq ft/gal (m²/L)	74 (1.8)	148 (3.6)
Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft	1184 (29)	

*See Performance Tips section

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

Drying Schedule @ 11.0 mils wet (275 microns):

	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 100°F/38°C
To touch:	14 hours	8-10 hours	2 hours
To recoat:			
minimum:	48 hours	18 hours	5 hours
maximum:	72 hours	72 hours	12 hours
To cure:	7 days	3-4 days	2 days
<i>If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.</i>			
Pot Life:	2.5 hours	2 hours	1 hour
Sweat-in-time:	15 minutes	10 minutes	none

Shelf Life: Part A: 8 months, unopened
Part B: 36 months, unopened
Store indoors at 40°F (4.5°C) to 100°F (38°C).

Flash Point: 82°F (28°C), PMCC, mixed

Reducer/Clean Up¹: VOC Restricted Areas (<250 g/L); use Reducer R7K111 or Oxsol 100

¹Other areas (<340 g/L): use Reducer R7K111, Oxsol 100, or Xylene, R2K4 up to 10%. Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

RECOMMENDED USES

For use over prepared substrates such as steel and concrete in industrial environments.

- Penstocks
- Dam gates
- Petroleum storage tanks
- Heavy duty structural coating
- Non-potable water tank and pipe coating
- Acceptable for use with cathodic protection systems
- Liner for clarifiers
- Marine applications
- Offshore drilling rigs

PERFORMANCE CHARACTERISTICS

Substrate*: Steel

Surface Preparation*: SSPC-SP6/NACE 3

System Tested*:

1 ct. TarGuard Coal Tar Epoxy @ 10.0 mils (250 microns) dft
*unless otherwise noted below

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	137 mg loss
Adhesion	ASTM D4541	1000 psi
Direct Impact Resistance	ASTM D2794	36 in. lb.
Dry Heat Resistance (quench test only)	ASTM D2485	350°F (177°C)
Moisture Condensation Resistance	ASTM D4585, 100°F (38°C), 3000 hours	Excellent
Pencil Hardness	ASTM D3363	F
Salt Fog Resistance	ASTM B117, 3000 hours	Excellent
Thermal Shock	ASTM D2246, 100 cycles	Excellent
Wet Heat Resistance	Non-immersion	120°F (49°C)



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RECOMMENDED SYSTEMS

	Dry Film Thickness / ct.	
	Mils	(Microns)
Concrete, atmospheric or immersion:		
2 cts. TarGuard Coal Tar Epoxy	8.0-16.0	(200-400)
Steel, atmospheric or immersion:		
2 cts. TarGuard Coal Tar Epoxy	8.0-16.0	(200-400)
Steel, atmospheric or immersion:		
1 ct. Macropoxy 240	3.0-5.0	(75-125)
2 cts. TarGuard Coal Tar Epoxy	8.0-16.0	(200-400)
Steel, atmospheric or immersion:		
1 ct. Zinc Clad 4100	3.0-5.0	(75-125)
1 ct. TarGuard Coal Tar Epoxy	12.0-16.0	(300-400)
1 ct. TarGuard Coal Tar Epoxy	12.0-16.0	(300-400)
Steel, zinc rich primer, atmospheric only:		
1 ct. Zinc Clad II Plus	3.0	(75)
2 cts. TarGuard Coal Tar Epoxy	8.0-16.0	(200-400)
Aluminum, atmospheric only:		
2 cts. TarGuard Coal Tar Epoxy	2.0-4.0	(50-100)
Galvanized Metal, atmospheric only:		
2 cts. TarGuard Coal Tar Epoxy	2.0-4.0	(50-100)

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

DISCLAIMER

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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
SSPC-WJ2/NACE WJ-2 (Type M Flash rust), 2.0-3.0 mils (50-75 microns) profile

Immersion: SSPC-SP10/NACE 2, 2.5-4.0 mil (63-100 micron) profile
SSPC-WJ2/NACE WJ-2 (Type M Flash rust), 2.0-3.0 mils (50-75 microns) profile

Aluminum:

Galvanizing:

Concrete & Masonry:

Atmospheric:

SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3

Immersion: SSPC-SP13/NACE 6-4.3.1 or 4.3.2, or ICRI No. 310.2R, CSP 1-3

Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC NACE	
			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	-
Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted C St 3	C St 3	SP 3	-
Pitted & Rusted	D St 3	D St 3	SP 3	-

TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature: 50°F (10°C) minimum, 120°F (49°C) maximum (air, surface, and material)

Relative humidity: At least 5°F (2.8°C) above dew point
90% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging: 5 gallons (18.9L) mixed
Part A: 4 gallons (15.1L) in a 5 gallon (18.9L) container
Part B: 1 gallon (3.78L)

Weight: 10.7 ± 0.2 lb/gal ; 1.3 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.



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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. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2.5-4.0 mils / 63-100 microns). Ultra High Pressure Hydroblasting / Abrasive Wet Blasting may be applied to surfaces prepared to SSPC-WJ2/NACE WJ-2, allowable flash rusted to no worse than Type (M) Moderate. Pre-existing profile should be approximately 2.0-3.0 mils (50-75 microns). Remove all weld spatter and round all sharp edges by grinding. Prime any bare steel the same day as it is cleaned.

Iron & Steel, Atmospheric Service:

Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. First remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Ultra High Pressure Hydroblasting / Abrasive Wet Blasting may be applied to surfaces prepared to SSPC-WJ2/NACE WJ-2, allowable flash rusted to no worse than Type (M) Moderate. Pre-existing profile should be approximately 2.0-3.0 mils (50-75 microns). Prime any bare steel the same day as it is cleaned.

Galvanized Steel/Aluminum

Allow to weather a minimum of six months prior to coating. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1 (recommended solvent is VM&P Naphtha). Lightly brush blast per SSPC-SP 7 to provide a 2 mil (50 micron) profile.

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.

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 1-3.

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	-

APPLICATION CONDITIONS

Temperature: 50°F (10°C) minimum, 120°F (49°C) maximum
(air, surface, and material)
At least 5°F (2.8°C) above dew point

Relative humidity: 90% 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 Up¹ VOC Restricted Areas (<250 g/L):
use Reducer R7K111 or Oxsol 100

¹Other areas (<340 g/L): use Reducer R7K111, Oxsol 100, or Xylene, R2K4 up to 10%. Choose a reducer that is compliant in your area. Confirm compliance with state and local air quality rules before use.

Airless Spray

Pressure.....3000 psi
Hose.....3/8" - 1/2" ID
Tip0.017" - .025"
Filter None
Reduction.....As needed up to 10% by volume

Conventional Spray (bottom feed tank recommended)

GunBinks 95
Fluid Nozzle 66
Air Nozzle.....63PB
Atomization Pressure.....60 psi
Fluid Pressure.....40 psi
Reduction.....As needed up to 10% by volume

Brush

Brush.....Small areas only; natural bristle
Reduction.....Not recommended

Roller

CoverSmall areas only; 3/8" - 1/2" woven
with solvent resistant core
Reduction.....Not recommended

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



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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine four parts by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. Allow the material to sweat-in as indicated. Re-stir before using.

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

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

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	11.0 (275)	22.0 (550)
Dry mils (microns)	8.0* (200)	16.0* (400)
~Coverage sq ft/gal (m ² /L)	74 (1.8)	148 (3.6)
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	1184 (29)	

*See Performance Tips section

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

Drying Schedule @ 11.0 mils wet (275 microns):

	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 100°F/38°C
To touch:	14 hours	8-10 hours	2 hours
To recoat:			
minimum:	48 hours	18 hours	5 hours
maximum:	72 hours	72 hours	12 hours
To cure:	7 days	3-4 days	2 days

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

Pot Life: 2.5 hours 2 hours 1 hour

Sweat-in-time: 15 minutes 10 minutes none

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. In California use Reducer R7K111 or Oxsol 100. 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 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 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 Xylene, R2K4. In California use Reducer R7K111 or Oxsol 100.

Coating must be fully cured before placing into immersion service.

For wet-on-wet application, apply first coat at 8-10 mils (200-250 microns) dft and let flash for 45 minutes. Then apply a second coat at 8-10 mils (200-250 microns) dft.

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

Quik-Kick Epoxy Accelerator is acceptable for use. See data page 4.99 for details.

When coating over aluminum and galvanizing, recommended dft is 2-4 mils (50-100 microns).

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

SAFETY PRECAUTIONS

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