COVER	Protec		٦	COA	ARD LO	W VOC EPOXY
SHERWIN WILLIAMS.	Mar Coati		Part Part			Black Hardener
Revised: Nover	iber 16, 2020	PR	ODUCT II	NFORMATIO	N	4.81
PI	RODUCT D	ESCRIPTION	1	Re	COMMENDED U	SES
<ul> <li>TARGUARD LOW amide epoxy coal f</li> <li>Chemical resista</li> <li>Corrosion and a</li> <li>Equal performar VOC regulations</li> <li>Corps of Engine</li> <li>SSPC Paint 16 \$</li> </ul>	tar coating. ant brasion resista nce to TarGuan s ers Formula C	ant rd, while meeting		industrial environmer • Penstocks • Dam gates • Petroleum storage • Heavy duty structu • Non-potable water	<ul><li>Liner for</li><li>Marine a</li><li>Offshore</li></ul>	clarifiers pplications drilling rigs
Pro	<i><b>DUCT CHA</b></i>	RACTERISTI	CS	Perform	MANCE CHARAC	TERISTICS
Finish:	Semi	-Gloss		Substrate*: Steel		
Color:	Black	(		Surface Preparation	n*: SSPC-SP6	
Volume Solids:	74%	± 2%, mixed		System Tested*: 1 ct. TarGuard Lov *unless otherwise noted b	v VOC Coal Tar Epoxy <sup>elow</sup>	v @ 10.0 mils dft
Weight Solids:	82%	± 2%, mixed		Test Name	Test Method	Results
VOC (EPA Method Mix Ratio:	2 cor	g/L; 0.83 lb/gal, nponent, premea lons mixed		Abrasion Resistance Adhesion	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load ASTM D4541, Patti	137 mg loss 1000 psi
Recomm	ended Spre	ading Rate pe	r coat:	Direct Impact	Tester	
Wet mils: Dry mils: ~Coverage sq f	-	Minimum 11.0 8.0* 74	Maximum 22.0 16.0* 148	Resistance Dry Heat Resistance (quench test only)	ASTM D2794 ASTM D2485, Method A, Quench Test	36 in. lbs. 350°F
*See Performane NOTE: Brush or	ce Tips section roll application	n may require mu		Moisture Condensation Resistance	ASTM D4585, 100°F, 3000 hours	Excellent
achieve maximur	n film thicknes	s and uniformity	of appearance.	Pencil Hardness	ASTM D3363	F
Drying Sch	-	<u>.0 mils wet @ :</u>		Salt Fog Resis- tance	ASTM B117, 3000 hours	Excellent
To touch:	<b>@ 50°F</b> 14 hours	<b>@ 77°F</b> 2 hours	<b>@ 100°F</b> 1 hour	Thermal Shock	ASTM D2246, 100 cycles	Excellent
To recoat: minimum: maximum:	48 hours 72 hours	18 hours 72 hours	5 hours 12 hours	Wet Heat Resis- tance	Non-immersion	120°F
To cure: If maximum recoat to Drying time is tem, Pot Life: Sweat-in-Time: Shelf Life: Flash Point: Reducer/Clean L	perature, humio 2.5 hours 15 minutes		ess dependent. 1 hour none s, unopened hs, unopened 40°F to 100°F.			



# TARGUARD LOW VOC COAL TAR EPOXY

B69B65 PART A PART B **B69V60** 

BLACK HARDENER

# **PRODUCT INFORMATION**

4.81

Revised: November 16, 2020		FORMATION	4.8
Recommended System	MS	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.	
Dry Fi	Im Thickness / ct. <u>Mils</u>		
Concrete, atmospheric or immersion:		adequate adriesion.	
2 cts. TarGuard Low VOC Coal Tar Epoxy	8.0-16.0	Refer to product Applic tion information.	ation Bulletin for detailed surface prepa
Steel, atmospheric or immersion:		Minimum recommende	d ourfage proportion
2 cts. TarGuard Low VOC Coal Tar Epoxy	8.0-16.0	Minimum recommende Iron & Steel: Atmospheric:	SSPC-SP6/NACE 3, 2 mil profile
Steel, atmospheric or immersion:		Immersion:	SSPC-SP10/NACE 2, 2.5-4.0 mil pro
1 ct. Macropoxy 240	3.0-5.0	Aluminum:	Brush Blast, 2 mil profile
2 cts. TarGuard Low VOC Coal Tar Epoxy	8.0-16.0	Galvanizing: Concrete & Masonry:	Brush Blast, 2 mil profile
Steel, atmospheric or immersion:		Atmospheric:	SSPC-SP13/NACE 6, or ICRI 310.2 CSP 1-3
1 ct. Zinc Clad 4100	3.0-5.0	Immersion:	SSPC-SP13/NACE 6-4.3.1
1 ct. TarGuard Low VOC Coal Tar Epoxy	12.0-16.0		or 4.3.2, or ICRI 310.2R, CSP 1-3
		Surfa	ce Preparation Standards
1 ct. TarGuard Low VOC Coal Tar Epoxy	12.0-16.0	Conditio Surface	on of ISO 8501-1 Swedish Std. BS7079:A1 SIS055900 SSPC NACI
Steel, zinc rich primer, atmospheric only:	2.0	White Metal Near White Metal Commercial Blast	Sa 3 Sa 3 SP 5 1 Sa 2.5 Sa 2.5 SP 10 2 Sa 2 Sa 2 SP 6 3
1 ct. Zinc Clad II Plus	3.0	Commercial Blast Brush-Off Blast	Sa1 Sa1 SP74
2 cts. TarGuard Low VOC Coal Tar Epoxy	8.0-16.0	Hand Tool Cleaning Rusted Pitted &	C St 2 C St 2 SP 2 - Rusted D St 2 D St 2 SP 2 - C St 3 C St 3 SP 3 -
		Power Tool Cleaning Rusted Pitted &	Rusted D St 2 D St 2 SP 2 - C St 3 C St 3 SP 3 - Rusted D St 3 D St 3 SP 3 -
Aluminum, atmospheric only:			
2 cts. TarGuard Low VOC Coal Tar Epoxy	2.0-4.0		Tinting
Galvanized Metal, atmospheric only:	0.0.4.0	Do not tint.	
2 cts. TarGuard Low VOC Coal Tar Epoxy	2.0-4.0		CATION CONDITIONS
The systems listed above are representative of other systems may be appropriate.	the product's use,	Temperature:	50°F minimum, 120°F maximum (air, surface, and material) At least 5°F above dew point
		Relative humidity:	85% maximum
		Refer to product Applicati	on Bulletin for detailed application information
		Orde	ring Information
		Packaging: Part A: Part B:	5 gallons mixed 4 gallons in a 5 gallon container 1 gallon
		Weight per gallon:	10.7 ± 0.2 lb, mixed
		SAFI	ETY PRECAUTIONS
		Refer to the SDS sheet befo	re use.
		Published technical data an Contact your Sherwin-Willia instructions.	d instructions are subject to change without not ms representative for additional technical data a
			WARRANTY
Disclaimer			any warrants our products to be free of manufac
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.		Liability for products proven of tive product or the refund of determined by Sherwin-Willi OF ANY KIND IS MADE BY STATUTORY, BY OPERATION	blicable Sherwin-Williams quality control procedur lefective, if any, is limited to replacement of the def the purchase price paid for the defective product ams. NO OTHER WARRANTY OR GUARANT SHERWIN-WILLIAMS, EXPRESSED OR IMPLII ON OF LAW OR OTHERWISE, INCLUDING MI SS FOR A PARTICULAR PURPOSE.

	Protective
COVER THE EARTH	&
	Marine
Sherwin Williams.	Coatings

# TARGUARD LOW VOC COAL TAR EPOXY

PART A PART B

BLACK HARDENER

## APPLICATION BULLETIN

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## SURFACE PREPARATIONS

## General Surface Preparation

Revised: November 16, 2020

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure good adhesion.

## Iron & Steel. Immersion Service:

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 or SSPC-SP12/NACE No. 5. For SSPC-SP10, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2.5-4.0 mils). For SSPC-SP12/NACE No. 5, all surfaces to be coated shall be cleaned in accordance with WJ-2. Pre-existing profile should be approximately 2.5-4.0 mils. Remove all weld spatter and round all sharp edges by grinding. Prime any bare steel the same day as it is cleaned day as it is cleaned

## Iron & Steel, Atmospheric Service:

Iron & Steel, Atmospheric Service: Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3 or SSPC-SP12/NACE 5. For surfaces prepared by 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). For surfaces prepared by SSPC-SP12/NACE No. 5, all surfaces shall be cleaned in accordance with WJ-3. Pre-existing profile should be approximately 2 mils. 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 profile.

## Concrete/Masonry, Atmospheric Service:

### New

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI 310.2R CSP 1-3. Surface must be clean, dry, sound, and offer sufficient profile to achieve adequate adhesion. Minimum substrate cure is 28 days at 75°F. 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 10.0. Allow to dry thoroughly prior to coating.

### Old

Surface preparation is done in much the same manner as new concrete; 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 Filler/Sealer is recommended to patch and resurface damaged concrete.

Concrete/Masonry, Immersion Service: For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 4.3.2, or ICRI 310.2R, CSP 1-3

# Always follow the industry standards listed below: 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-SP13/NACE 6 Surface Preparation of Concrete ICRI 310.2R

Surface	Preparatio	n Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal Near White Metal		Sa 3 Sa 2.5 Sa 2	Sa 3 Sa 2.5	SP 5 SP 10 SP 6	1
Commercial Blast Brush-Off Blast	Durted	Sa 1	Sa 2 Sa 1	SP 7	3
Hand Tool Cleaning	Rusted Pitted & Rusted	C St 2 D St 2	C St 2 D St 2	SP 2 SP 2	2
Power Tool Cleaning	Rusted Pitted & Rusted	C St 3 D St 3	C St 3 D St 3	SP 3 SP 3	2

## **APPLICATION CONDITIONS**

Temperature:

50°F minimum, 120°F maximum (air, surface, and material) At least 5°F above dew point

Relative humidity: 85% maximum

B69B65

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## **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 .....R7K111

## **Airless Spray**

Pressure	
Hose	
Тір	
Filter	None
Reduction	As needed up to 10% by volume

## Conventional Spray (bottom feed tank recommended)

	Diake OF
Gun	BINKS 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

Cover	Small areas only; 3/8" - 1/2" woven
	solvent resistant
Reduction	Not recommended

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

Marine	
SHERWIN WILLIAMS. Coatings	

Revised: November 16, 2020

# TARGUARD LOW VOC COAL TAR EPOXY

 Part A
 B69B65

 Part B
 B69V60

Black Hardener

## APPLICATION BULLETIN

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Application Procedures	PERFORMANCE TIPS
Surface preparation must be completed as indicated.	Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.
Mix contents of each component thoroughly with 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.	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.
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:	Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or po- rosity 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.
Recommended Spreading Rate per coat:	Do not apply the material beyond recommended pot life.
Minimum Maximum Wet mils: 11.0 22.0	Do not mix previously catalyzed material with new.
Dry mils:         8.0*         16.0*           ~Coverage sq ft/gal:         74         148	In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with R7K111.
*See Performance Tips section <b>NOTE:</b> Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.	Coating must be fully cured before placing into immersion service.
Drying Schedule @ 11.0 mils wet @ 50% RH:           @ 50°F         @ 77°F         @ 100°F           To touch:         14 hours         2 hours         1 hour           To recoat:	<b>Holiday Detection:</b> For systems <20 mils, use a wet sponge-type detector such as KD Bird Dog or equivalent equipment per manufacturer's recommendation. For systems >20 mils, use high voltage holiday detectors. Test only cured coating, as solvent entrapment in fresh films may provide false readings.
minimum:48 hours18 hours5 hoursmaximum:72 hours72 hours12 hoursTo cure:7-10 days7-10 days2 daysIf maximum recoat time is exceeded, abrade surface before recoating.	Quik-Kick Epoxy Accelerator is acceptable for use. See data page 4.99 for details.
Drying time is temperature, humidity, and film thickness dependent.Pot Life:2.5 hours2 hours1 hourSweat-in-Time:15 minutes10 minutesnone	When coating over aluminum and galvanizing, recommended dft is 2-4 mils.
Application of coating above maximum or below minimum	Refer to Product Information sheet for additional performance characteristics and properties.
recommended spreading rate may adversely affect coating	SAFETY PRECAUTIONS
performance.	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.
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.	WARRANTY The Sherwin-Williams Company warrants our products to be free of manufacturing
Disclaimer	defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the de- fective product or the refund of the purchase price paid for the defective product
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.	as determined by Sherwin-Williams. NO OTHER WARANTY OR GUARANTE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MER- CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.