



Protective & Marine Coatings

SEAGUARD® TIE COAT

PART A
PART B

P23Y00001
P23V00001

YELLOW
HARDENER

Revised: November 4, 2021

PRODUCT INFORMATION

PRODUCT DESCRIPTION

SEAGUARD TIE COAT is an epoxy developed to enhance adhesion of anti-foulants. SeaGuard Tie Coat has an extended overcoat window for anti-foulant application. This eliminates the requirements for a "tacky" epoxy onto which to apply anti-foulant.

PRODUCT CHARACTERISTICS

Finish:	Flat
Color:	Yellowish-Gray
Volume Solids:	62% ± 1%, mixed
VOC (EPA Method 24):	340 g/L; 2.8 lb/gal, mixed
Mix Ratio:	7A:1B, by volume

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	6.0 (150)	12.0 (300)
Dry mils (microns)	4.0 (100)	8.0 (200)
~Coverage sq ft/gal (m ² /L)	124 (3.0)	249 (6.1)
Theoretical coverage sq ft/gal (m ² /L) @ 1 mil / 25 microns dft	995 (25)	

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

Drying Schedule @ 8.0 mils wet (200 microns):

@ 50°F/10°C @ 68°F/20°C @ 86°F/30°C

To handle:	10 hours	6 hours	5 hours
To recoat:			
minimum:	11 hours	5.5 hours	4 hours
maximum:	7 days	3.5 days	3 days
To cure:		7 days	

NOTE: The film must be dry (not tacky) before application of subsequent coats and all minimum overcoating intervals must be observed.

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

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

Pot Life:	3.5 hours	2 hours	1 hour
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Shelf Life:	36 months, unopened Store indoors at 40°F (4°C) to 100°F (38°C).
Flash Point:	70°F (21°C), mixed
Clean Up:	MAK or MEK

RECOMMENDED USES

For use on marine vessels and structures

- As second coat of an epoxy underwater hull system
- Not required to be "tacky" when applying anti-foulant
- Qualified to MIL-PRF-24647E, Type I, Class 1 & 2, Grade A, Application 1, 2, 4
- Qualified to MIL-PRF-24647E, Type II, Class 1, Grade A, Application 1, 2, 3, 4
- For use as a "sealer" for existing anti-foulant systems



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RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
Steel:			
1 ct.	SeaGuard 5000 HS	5.0-7.0	(125-175)
1 ct.	SeaGuard Tie Coat	5.0-7.0	(125-175)
2-3 cts.	SeaGuard Ablative AF	5.0-7.0	(125-175)
Steel:			
1 ct.	SeaGuard 5000 HS	5.0-7.0	(125-175)
1 ct.	SeaGuard Tie Coat	5.0-7.0	(125-175)
2-3 cts.	SeaVoyage Copper Free AF	5.0-7.0	(125-175)

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: SSPC-SP10/NACE 2

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

TINTING

Do not tint.

APPLICATION CONDITIONS

- Use only where application and curing can proceed at temperatures above 23°F (-5°C). The temperature of the surface and that of the paint itself must also be above this limit.*
- When the ambient temperature is below 59°F (15°C), then the paint should be kept above 68°F (20°C)
- Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation

*While application down to -5°C/23°F is possible, curing (and full hardness) will take longer at lower temperatures.

ORDERING INFORMATION

Packaging:
Part A: 4.38 gallons (16.6L) in a 5 gallon (18.9L) pail
Part B: 0.62 gallons (2.3L) in a 1 gallon (3.8L) container

Weight: 11.69 ± 0.2 lb/gal ; 1.4 Kg/L

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

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.



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APPLICATION BULLETIN

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

Minimum surface preparation is Near White Blast Cleaning per SSPC-SP10/NACE 2. For temporary protection, if required, use a suitable shop primer. All damage of shop primer and contamination from storage and fabrication should be thoroughly cleaned prior to final painting.

Maintenance

Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. When used as "tiecoat": Remove all rust and loose material by abrasive blasting or power tool cleaning. Feather edges to sound and intact areas. Dust off residues. Touch up to full film thickness. When used as "sealer" on old antifouling: a very thorough high pressure freshwater cleaning or jetting, if needed - to remove possible leached layer of antifouling and make sure that old layers of weak intercoat adhesion ("sandwich structure") are removed.

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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.

Clean Up MAK or MEK
Reducer Not required

Airless Spray

Pressure..... 3335 psi
Tip 0.023"

Brush (touch up)..... Natural Bristle

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
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Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
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Hand Tool Cleaning	OC St 2	OC St 2	SP 3	1
Rusted	OC St 2	OC St 2	SP 3	1
Pitted & Rusted	OC St 3	OC St 3	SP 3	1
Power Tool Cleaning	OC St 3	OC St 3	SP 3	1
Rusted	OC St 3	OC St 3	SP 3	1
Pitted & Rusted	OC St 3	OC St 3	SP 3	1



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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions: Mix contents of each component thoroughly using low speed power agitation. Make certain no pigment remains on the bottom or the sides of the can. Then combine seven parts by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. To ensure that no unmixed material remains on the sides or bottom of the cans after mixing, visually observe the container by pouring the material into a separate container.

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

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	6.0 (150)	12.0 (300)
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NOTE: The film must be dry (not tacky) before application of subsequent coats and all minimum overcoating intervals must be observed.

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

Pot Life:	3.5 hours	2 hours	1 hour
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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 MAK or MEK. Clean tools immediately after use with MAK or MEK. Follow manufacturer's safety recommendations when using any solvent.

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PERFORMANCE TIPS

Seaguard Tie Coat may be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence drying time and recoating interval.

Normal range dry film thickness is 4.0-8.0 mils (100-200 microns). As "sealer" typically to be specified in: 4 mils (100 microns) dry film thickness. Please consult with your Sherwin-Williams Marine Representative regarding use of SeaGuard Tie-Coat as a "sealer".

Seaguard Tie Coat is designed for recoating with antifoulings in any normal specified total film thicknesses. The product is not designed for recoating with heavy duty epoxy systems. Later maintenance of paint systems with the product as a part of the system is accordingly most conveniently carried out by touch-up with a "mastic" type epoxy and with a proper overlap of intact surrounding paint system.

A completely clean surface is mandatory to ensure intercoat adhesion, especially at long recoating intervals. Any dirt, oil, grease, and other foreign matter must be removed with suitable detergent followed by (high pressure) fresh water cleaning. Salts to be removed by fresh water hosing. Any degraded surface layer, as a result of a long exposure period, must be removed as well. Water jetting may be relevant to remove any degraded surface layer and may also replace the above mentioned cleaning methods when properly executed. To check whether the quality of the surface cleaning is adequate, a test patch may be relevant.

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

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