

NOVA-PLATE[™] 325 **EPOXY TANK LINING**

Revised 04/2019 Issue 3

PRODUCT INFORMATION

PRODUCT DESCRIPTION

NOVA-PLATE 325 is an amine cured, glass & ceramic filled tank lining that utilises advanced novolac technology. It is engineered to protect cargo and steel tank and vessel interiors from aggressive chemicals stored and processed at high temperatures and high pressures. It provides quick return to service, high film build and can be used in applications where conventional, high-solids epoxies are not recommended.

- One coat protection
- Low VOC Low odour
- Extremely high film build
- Resists thermal cracking
- Excellent chemical resistance
- High temperature immersion resistance
- Plural-component application
- Norsok System 7C Approval

PRODUCT CHARACTERISTICS

Finish:	Gloss
Colour:	White
Volume Solids:	98%, ± 2%, mixed
Weight Solids:	98%, ± 2%, mixed
VOC:	91.2g/ltr, mixed
Mix Ratio:	2:1 by volume

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet microns (mils)	500 (20)	1000 (40)
Dry microns (mils)	500 (20)	1000 (40)
Theoretical Coverage m ² /ltr (soft/gal)	1.96 (78)	0.98 (39)

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

Drying Schedule @ 750 microns (30.0mils):			
	@ 10°C/(50°F)	@ 25°C/(77°F)	@ 32°C/(90°F)
		50% RH	
To touch:	6.5 hours	2.5 hours	1.5 hours
To handle:	26 hours	7 hours	5 hours
To recoat:			
minimum:	6.5 hours	2.5 hours	1.5 hours
maximum:	21 days	21 days	9 days
Cure to service:	14 days	24 hours*	24 hours*
*24 hour return to service to all other immersion. If maximum recoat ti	r high temperature and hig me is exceeded mi	gh pressure applications. 48 echanically abrade fil	B hour return to service for m prior to applying
additional coat.			
Drying time is	temperature, humic	dity, and film thicknes	s dependent.
Pot Life:	40 minutes	20 minutes	15 minutes
induction lime:		None required	
Shelf Life:	24 months		
Store indoors at 4.5 $^{\circ}$ C (40 $^{\circ}$ F) to 38 $^{\circ}$ C (100 $^{\circ}$ F)			
Flash Point:	flash Point: 94°C (201°F), PMCC, mixed		
Thinner:	er: Not recommended		
Clean up:	No 13		

Recommended Uses

For use over prepared steel or masonry surfaces in industrial and marine exposures such as:

- Oil storage tanks up to 149°C (300°F)
- Secondary containment
 Acceptable for use with cathodic protection systems
- Ethanol storage tanks
- Suitable for use in the Mining & Minerals Industry
- Oilfield Heater/Treaters
- Oil/Water Separators
- · Frac tanks with high temperature and high chemical flowback service

Performance Characteristics

Substrate*: Steel

Surface Preparation*: SSPC-SP10, NACE2/Sa21/2

System Tested*:

1 ct. Nova-Plate 325 @ 750 microns (30.0 mils) dft *unless otherwise noted below

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060-14, CS17 wheel, 1000 cycles, 1 kg load	22.4 mg loss
Adhesion	ASTM D4541-17	>2000 psi
Autoclave	NACE TM0185, 149°C (300°F) @ 2000 pse for 4 days	No effect
Cathodic	ASTM G8-96(2010)	0mm
Disbondment	ASTM G42-11 85°C (185°F)	10mm
Dry Heat Resistence	ASTM D2485-18	232°C (450°F)
Flexibility	NACE RP0394	1.25%
Immersion in Ethanol	NACE TM0174 49°C (120°F) for 6 months	No effect
Immersion (in Sweet & Sour Crude)	NACE TM0174 149°C (300°F) for 6 months	No effect
Immersion in Fresh Water of Sea Water	ASTM D6943-15, 99°C (210°F) for 6 months	No effect
Shore D Hardness	ASTM D2240-15e1	80 minimum

*Report No. IM54.1476-10

Immersion (ambient temperature) for the following:

•	37 % HOL	Recommended
•	Crude oil	Recommended
•	Fresh water	Recommended
•	Petrol	Recommended
•	Sea water	Recommended
•	Reformulated petrol	Recommended
•	Kerosene	Recommended
•	Ethanol	Recommended
•	Methanol	Not Recommended

Epoxy coatings may darken or yellow after application and curing.

www.sherwin-williams.com/protectiveEMEA

This Data Sheet is specifically subject to the disclaimer which can be found at http://protectiveemea.sherwin-williams.com/Home/Disclaimer



NOVA-PLATE[™] 325 EPOXY TANK LINING

Revised 04/2019 Issue 3

PRODUCT INFORMATION

SAFETY PRECAUTIONS	SURFA	CE PREPARATION
Refer to the SDS sheet before use.	Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure	
out notice. Contact your Sherwin-Williams representative for additional technical data and instructions.	Refer to product Application	on Bulletin for detailed surface
Disclaimer		
The information and recommendations set forth in this Product Data Sheet are	Minimum recommended s	surface preparation:
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.	Iron & Steel: Immersion: Concrete & Masonry:	SSPC-SP10/NACE 2/Sa2½ 50-100 micron (2-4mils) profile
WARRANTY	Secondary Containment:	SSPC-SP13/NACE2/6-4.3.1 or 4.3.2, or ICRI No. 310.sR, CSP2-3
The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures.	Surface	Preparation Standards
defective product or the refund of the purchase price paid for the defective product	Condition o Surface	of 8501-1:2007 Swedish Std. SIS055900 SSPC NACE
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 PARTICUL AR PURPOSE	White Metal Near White Metal Commercial Blast Brush-Off Blast	Sa 3 Sa 3 SP 5 1 Sa 2.5 Sa 2.5 SP 10 2 Sa 2 Sa 2 SP 6 3 Sa 1 Sa 1 SP 7 4
	Hand Tool Cleaning Rusted Pitted & Rus Power Tool Cleaning Pitted & Rus	CSt2 CSt2 SP2 - sted DSt2 DSt2 SP2 - CSt3 CSt3 SP3 - ted DSt3 DSt3 SP3 -
	Temperature:	
	Air & surface:	10°C (50°F) minimum, 43°C (110°F) maximum
	Relative Humidity:	85% maximum
	Refer to product Application	Bulletin for detailed application information.
	ORDERING INFORMATION	
	Packaging:	
	Base:	18ltr in 20ltr pail, 3ltr in 5ltr can
	Hardener:	9ltr in 12ltr pail, 1.5ltr in 2.5ltr can
	Weight:	1.4 Kg/L, (10.8±0.3 lbs/gal) mixed

www.sherwin-williams.com/protectiveEMEA

This Data Sheet is specifically subject to the disclaimer which can be found at http://protectiveemea.sherwin-williams.com/Home/Disclaimer"