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## Protective & Marine Coatings

PRODUCT DATA SHEET



# NOVA-PLATE® UHS EPOXY NOVOLAC TANK LINING

Revised: November 12, 2019

## PRODUCT DESCRIPTION

**NOVA-PLATE UHS** is a solvent free, edge retentive epoxy novolac with proven long term performance as a lining for bulk storage tanks, pipe internals and secondary containment where a higher degree of resistance is needed.

## **INTENDED USES**

An API 652 compliant (thin and thick film) lining for the internal protection of bulk storage tanks, vessels and pipes for the storage and processing of crude oil (at elevated temperatures), refined petrochemicals and solvents (including methanol). Superior build and pit-filling capabilities makes this lining suitable for new construction and maintenance.

## **PRODUCT DATA**

Finish: Gloss

Colors: Light Gray, White, Green

Volume Solids: 100% mixed

VOC (EPA Method 24): <100 g/L; 0.83 lb/gal

Mix Ratio: 4:1 by volume

**Typical Thickness:** 

#### Recommended Spreading Rate per coat:

	1 coat		2 coats direct	
	Min.	Max.	Min.	Max.
Wet mils (microns)	<b>15.0</b> (375)	<b>35.0</b> (875) <b>1</b>	0.0 (250)	<b>12.0</b> (300)
Dry mils (microns)	<b>15.0</b> (375)	<b>35.0</b> (875) <b>1</b>	0.0 (250)	<b>12.0</b> (300)
Total mils (microns)	<b>15.0</b> (375)	<b>35.0</b> (875) <b>2</b>	<b>20.0</b> (500)	<b>24.0</b> (600)
~Coverage sq ft/gal (m²/L) per ct	<b>. 45</b> (1.1)	<b>105</b> (2.6)	<b>130</b> (32)	<b>160</b> (3.9)
Theoretical coverage <b>sq ft/gal</b> (m²/L) @ 1 mil / 25 microns dft		<b>1604</b> (3	9.4)	

NOTE: Brush or roll application recommended for stripe coating and repair only. Standard hardener preferred for brush & roll due to pot life.

Shelf Life: 24 months, unopened

Store indoors at 40°F (4.5°C) to 100°F (38°C).

Flash Point: >230°F (110°C), PMCC, mixed

Reducer: Not recommended
Clean Up: Not recommended
M.E.K. or Reducer #104

Weight: 11.20 ± 0.3 lb/gal; 1.34 Kg/L, mixed

Average	Drving	Times:
Avciado	PIVIII	1111103.

with fast cure hardener

		50% RH	50% RH	50% RH
	Touch:	9 hours	3 hours	1.25 hours
	Handle:	24 hours	12 hours	4.25 hours
	Recoat:			
	minimum:	24 hours	12 hours	4.25 hours
	maximum:	21 days	21 days	14 days
	Cure to service:	7 days	5 days	5 days
	Pot Life:	50 minutes	25 minutes	10 minutes
	Sweat-in-time:		none required	
	with standard hardener	55°F (13°C)	77°F (25°C)	100°F (38°C)
)		50% RH	50% RH	50% RH
)	Touch:	15 hours	4 hours	2 hours
)	Handle:	36 hours	14 hours	6 hours
	Recoat:			
	minimum:	36 hours	14 hours	6 hours
	maximum:	21 days	21 days	14 days
	Cure to service:	7 days	5 days	5 days
	Pot Life:	90 minutes	40 minutes	20 minutes
	Sweat-in-time:		none required	

55°F (13°C)

77°F (25°C)

50% DU

100°F (38°C)

50% DU

Pot life is dependent upon temperature and mass.

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

## 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.

## Minimum recommended surface preparation:

Iron & Steel: Atmospheric: SSPC-SP6/NACE 3/ ISO8501-1:2007 Sa 2, 2 mil profile (50 micron) profile or

SSPC-SP12/NACE No. 5, WJ-3/NV-2

Immersion: SSPC-SP10/NACE 2, 2-3 mil (50-75 micron) profile or SSPC- SP12/NACE No. 5,

WJ-2/NV-2 (marine exterior hull only)

Concrete & Masonry: Atmospheric: SSPC-SP13/NACE 6, or ICRI No. 310.2R CSP 2-3

Immersion: SSPC-SP13/NACE 6-4.3.1 or 4.3.2, or ICRI No. 310.2R CSP 2-3



## **Protective & Marine Coatings**

PRODUCT DATA SHEET



## **NOVA-PLATE® UHS EPOXY NOVOLAC TANK LINING**

## **APPLICATION**

## Temperature (air & surface):

Airless Spray

Unit......68:1 pump, minimum Pressure......6000 psi minimum (413 bar)

Hose.....3/8" ID (9.5 mm)

Tip .......019"-.021" (0.48-0.53 mm)

Filter......30 mesh

In order to avoid blockage of airless spray equipment and hose, flush equipment at least once every hour and before periods of extended downtime with M.E.K. or Reducer #104.

Plural Component Equipment

Unit.....50:1 or greater

Pressure......4000 psi minimum (275 bar)

Hose.....3/8" ID (9.5 mm)

Brush ......For stripe coating, laminate systems, and repair only

Brush.....Nylon/Polyester or Natural Bristle

**Roller** ......For stripe coating, laminate systems,

and repair only

Consult your local Technical Service Representative for further equipment questions and best practices.

**RECOMMENDED SYSTEMS** 

Dry Film Thickness / ct. **Mils** (Microns)

Steel, Immersion & Atmospheric

2 Cts. Nova-Plate UHS 10.0-12.0 (250-300)

Steel, Immersion & Atmospheric

1 Ct. Nova-Plate UHS 15.0-35.0 (375-875)

NOTE: Nova-Plate UHS may be applied at alternate thicknesses, up to 60 mils (1,500 microns), depending on application conditions. Consult your Sherwin-Williams representative for additional information.

50°F (10°C) minimum, 110°F (43°C)

maximum

**APPLICATION CONDITIONS** 

At least 5°F (2.8°C) above dew point

Material should be 77°F (25°C) to 100°F (38°C) for optimal

performance.

Relative humidity: 85% maximum

## **APPROVALS**

Meets MIL-PRF-23236, Type VII, Class 5, 7, 13 and 19, Grade C

#### **ADDITIONAL NOTES**

Do not tint Part A. Hardeners may be tinted with up to 1-1/2 oz per gallon with Maxitoner Colorants.

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

Blue OAP contains fluorescent pigment.

Guidance on techniques and required equipment to inspect a coating system incorporating Opti-Check OAP Technology can be found in SSPC-TU 11.

May be applied up to 60.0 mils (1500 microns) dft in one coat if required.

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

## 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.

## **HEALTH AND SAFETY**

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.

## **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 Sheet.