



## **NOVA-PLATE® 360** HIGH PERFORMANCE NOVOLAC

Revised: June 9, 2023

### **PRODUCT DESCRIPTION**

**NOVA-PLATE 360** is a next generation, high performance, PTFE, inert flake reinforced, novolac tank lining which can be applied by single leg airless or plural component airless application with return to service times in as little as 24 hours. It meets the requirements of the API 652 guideline as a thick film reinforced lining, in immersion service temperatures up to 275°F (135°C), with proven hole bridging capabilities, combined with excellent edge retention meeting the MIL-PRF-23236D standard. It has excellent abrasion resistance and it incorporates Optical Activated Pigment (OAP) technology to improve the accuracy and productivity of holiday detection.

#### **INTENDED USES**

Process vessels, operating at higher temperatures and pressures, for crude oil and produced water service. Suitable as a lining for bulk storage tanks for petrochemicals, bio-fuels (offering superior resistance to alcohols, including methanol and biodiesel) and a wide of range of chemicals including naphtha. The high chemical resistance combined with flexibility makes this lining suitable for applications in Water and Waste Water, Mining, Offshore, Power, and Chemical Processing. Nova-Plate 360 can also be used for pipeline internals and externals.

PRODUCT DATA							
Finish:	Gloss			Average Drying T	imes:		
Colors:	Greer	Green, Blue OAP			45°F (7°C) <i>50% RH</i>	77°F (25°C) <i>50% RH</i>	100°F (38°C) <i>50% RH</i>
Volume Solids:	96% <u>+</u>	96% ± 2%, mixed		Touch: Handle:	5 hours	3 hours	1 hour 3 hours
VOC (unreduced	): 15 g/L	15 g/L; 0.13 lb/gal, mixed		Recoat:	50 110013	0 110013	onours
Mix Ratio:	2:1 by	2:1 by volume		minimum: maximum:	38 hours 30 days	8 hours 30 days	3 hours 30 days
Typical Thicknes Wet mils (micr Dry mils (micr ~Coverage sq f	<b>s:</b> rons) ons) f <b>t/gal</b> (m²/L)	Minimum 16.0 (400) 15.0 (375) 44 (1.1)	Maximum 36.0 (900) 35.0 (875) 103 (2.5)	um 900)Cure to service: Pot Life:7 days48 hours24 hours900) 375)If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.			
Shelf Life:	Part A: 18 mo Part B: 12 mo Store indoors	t A: 18 months, unopened t B: 12 months, unopened re indoors at 45°F (7°C) to 100°F (38°C).					
Flash Point: Reducer: Clean Up: Weight:	200°F (93°C) Not recomme M.E.K. 13.00 lb/gal ;	, PMCC or SET nded 1.56 Kg/L, mixed	A, mixed d, Green				

## 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:	Immersion: SSPC-SP10/NACE 2, angular 3.0-4.0 mil (75-100 micron) sharp and angular profile [Medium (G) (ISO 8503-2)]
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

# **NOVA-PLATE® 360** HIGH PERFORMANCE NOVOLAC

APPLICATION	APPLICATION CONDITIONS			
Airless Spray           Pump	Temperature: Air & Surface:45°F (7°C) minimum, 120°F (49°C) maximumMaterial:65°F (18°C) minimum, 100°F (38°C) maximumRelative humidity:85% maximum			
Plural Component Equipment	APPROVALS			
Pump Ratio	<ul> <li>In compliance with EI Standard 1541, Section 2.2</li> <li>Meets edge retention requirements of MIL-PRF-23236D</li> </ul>			
Pump Heater Setting80°F-110°F (27°C-43°C)	ADDITIONAL NOTES			
Material Temperature at Gun Tip80°F (27°C) Filter Screen60 mesh	Excessive film thickness should be avoided when used in high temperature or high pressure applications.			
BrushFor stripe coating and repair only BrushNylon/Polyester or Natural Bristle	Extensive, deep pitting: Options: Option 1Apply a full wet coat, by spray application, of Nova-Plate 360. If necessary, follow with rubber squeegee to work material into and fill the pitted areas. Apply a full coat			
Roller	of Nova-Plate 360 at recommended film thickness. Option 2Weld new steel plates, or use puddle welds, as required to repair pitted areas. Coat areas as recommended. Shallow pitting, isolated areas: Same as number 1 above.			
	Low spray pressure allows for less over spray in small vessels.			
Dry Film Thickness / ct. <u>Mils</u> (Microns)	Minimal mils can be applied to pitted areas via brush, roll, or squeegee to force air out of the pit. Another coat can immediately be spray applied over to achieve specified mil thickness.			
Steel or Concrete, Immersion           1 Ct.         Nova-Plate 360         15.0-35.0* (375-875)*	Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine two parts by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation.			
*Nova-Plate 360 may be applied in one or more coats to alternate	Siphon feed is acceptable for material delivery.			
conditions. Consult your Sherwin-Williams representative for additional information.	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.			
The systems listed above are representative of the product's use, other systems may be appropriate.	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, climatic conditions, and excessive film build.			
WARRANTY	Film build exceeding 50 mils (1,250 microns) should be avoided as it will increase cure times.			
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 produc	For Immersion Service: Holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.			
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 WARRANTY SHERWIN WILL HAR EVEN OF ANY KIND IS AND A REPORT OF A REPORT	Do not mix previously catalyzed material with new.			
OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.	Do not apply the material beyond recommended pot life.			
DISCLAIMER	HEALTH AND SAFETY			
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 informa-	Refer to the SDS sheet before use.			
tion 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.	Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.			