



NOVA-PLATE® 360

HIGH PERFORMANCE NOVOLAC

Revised: October 7, 2019

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). 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. 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 Times:			
Colors:	Green, Blue OAP		45°F (7°C)	77°F (25°C)	100°F (38°C)	
Volume Solids:	96% ± 2%, mixed		50% RH	50% RH	50% RH	
VOC (unreduced):	15 g/L; 0.13 lb/gal, mixed		Touch:	5 hours	3 hours	1 hour
Mix Ratio:	2:1 by volume		Handle:	38 hours	8 hours	3 hours
Typical Thickness:			Recoat:			
			minimum:	38 hours	8 hours	3 hours
Wet mils (microns)	Minimum	Maximum	maximum:	30 days	30 days	30 days
Dry mils (microns)	16.0 (400)	36.0 (900)	Cure to service:	7 days	48 hours	24 hours
~Coverage sq ft/gal (m²/L)	15.0 (375)	35.0 (875)	Pot Life:	2 hours	1 hour	25 minutes
	44 (1.1)	103 (2.5)	<i>If maximum recoat time is exceeded, abrade surface before recoating.</i>			
Shelf Life:	12 months, unopened		<i>Drying time is temperature, humidity, and film thickness dependent.</i>			
	Store indoors at 45°F (7°C) to 100°F (38°C).					
Flash Point:	200°F (93°C), PMCC or SETA, mixed					
Reducer:	Not recommended					
Clean Up:	M.E.K.					
Weight:	13.00 lb/gal ; 1.56 Kg/L, mixed, 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) profile



Protective & Marine Coatings
PRODUCT DATA SHEET



NOVA-PLATE® 360

HIGH PERFORMANCE NOVOLAC

APPLICATION	APPLICATION CONDITIONS									
<p>Airless Spray</p> <p>Pump.....45:1 or greater Pressure.....3600-4000 psi (248-276 bar) Hose.....3/8" ID (9.5 mm) Tip......017"-.023" (0.43-0.58 mm) Filter.....60 mesh</p> <p>Plural Component Equipment</p> <p>Pump.....50:1 or greater Pump Ratio.....2:1 Fluid Hose.....3/8"-A (9.5 mm), 1/4"-B (6.4 mm), 3/8" integrated (9.5 mm) Tip Orifice......017"-.023" (0.43-0.58 mm) Pump Heater Setting.....80°F-110°F (27°C-43°C) Material Temperature at Gun Tip.....80°F (27°C) Filter Screen.....60 mesh</p> <p>Brush.....For stripe coating and repair only Brush.....Nylon/Polyester or Natural Bristle</p> <p>Roller.....For stripe coating and repair only Roller.....3/8" woven with solvent resistant core</p> <p>If specific application equipment is not listed above, equivalent equipment may be substituted.</p>	<p>Temperature:</p> <p>Air & Surface: 45°F (7°C) minimum, 120°F (49°C) maximum Material: 65°F (18°C) minimum, 100°F (38°C) maximum Relative humidity: 85% maximum</p>									
	ADDITIONAL NOTES									
	<p>Excessive film thickness should be avoided when used in high temperature or high pressure applications.</p> <p>Repair of Pitted Tank Bottoms Extensive, deep pitting: Options: Option 1...Apply 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 of Nova-Plate 360 at recommended film thickness. Option 2...Weld 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.</p> <p>Low spray pressure allows for less over spray in small vessels.</p> <p>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.</p> <p>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.</p> <p>Siphon feed is acceptable for material delivery.</p> <p>Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.</p> <p>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.</p> <p>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.</p> <p>Film build exceeding 50 mils (1,250 microns) should be avoided as it will increase cure times.</p> <p>For Immersion Service: Holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.</p> <p>Do not mix previously catalyzed material with new.</p> <p>Do not apply the material beyond recommended pot life.</p>									
RECOMMENDED SYSTEMS										
<table border="1"> <thead> <tr> <th>Dry Film Thickness / ct.</th> <th>Mils</th> <th>(Microns)</th> </tr> </thead> <tbody> <tr> <td>Steel, Immersion</td> <td></td> <td></td> </tr> <tr> <td>1 Ct. Nova-Plate 360</td> <td>15.0-35.0*</td> <td>(375-875)*</td> </tr> </tbody> </table> <p>*Nova-Plate 360 may be applied at alternate thicknesses, up to 50 mils (1,250 microns), depending on application conditions. Consult your Sherwin-Williams representative for additional information.</p>	Dry Film Thickness / ct.	Mils	(Microns)	Steel, Immersion			1 Ct. Nova-Plate 360	15.0-35.0*	(375-875)*	
Dry Film Thickness / ct.	Mils	(Microns)								
Steel, Immersion										
1 Ct. Nova-Plate 360	15.0-35.0*	(375-875)*								
<p>The systems listed above are representative of the product's use, other systems may be appropriate.</p>										
WARRANTY										
<p>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.</p>										
	HEALTH AND SAFETY									
	<p>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.</p>									
	DISCLAIMER									
	<p>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.</p>									