

# **DURA-PLATE® UHS EPOXY TANK LINING**

Revised: June 9, 2023

#### **PRODUCT DESCRIPTION**

DURA-PLATE UHS is an ultra-high solids, edge retentive epoxy with proven long term performance as a lining for bulk storage tanks, ballast tanks, pipe internals and secondary containment. Applied using normal or plural airless spray.

#### **INTENDED USES**

An API 652 (thin and thick film) lining for the internal protection of bulk storage tanks and pipes for the storage and transport of crude oil, refined petrochemicals (including aviation fuel) and fresh water including NSF. Superior build and pit-filling capabilities makes this lining suitable for new construction and maintenance.

				PRODU	CT DATA				
Finish:	Gloss				Average Drying Times @ 10-22 mils wet (250-550 microns):				
Colors:	Light (	Gray, White	, Light Gre	en	With standard hardener, B62V210	55°F (13°C)	77°F (25°C) 50% RH	100°F (38°C)	
Volume Solids:	98% ±	98% ± 2%, mixed			Touch: Handle:	12 hours 48 hours	5 hours 14 hours	3 hours 8 hours	
VOC (EPA Method 24): <100 g/L; 0.83 lb/gal				Recoat:	48 hours	14 hours	8 hours		
Mix Ratio:	4:1 by volume			maximum: Cure to service:	21 days 10 days	14 days 4 days	14 days 24 hours		
Typical Thickness:					Heat cure:	2	ent, then 16 hours	s @ 140°F (60°C	
Recommended Spreading Rate per coat:				(not NSF approved)					
	Min.	oat system Max.	Min.	system Max.	Pot Life*: Sweat-in-time:	30-45 minutes 15 minutes	30-45 minutes none	20-30 minutes none	
Wet mils (microns) Dry mils (microns)	18.0 (4) 18.0 (4)	, ,	0) <b>10.0</b> (250) 0) <b>10.0</b> (250)	<b>12.0</b> (300) <b>12.0</b> (300)	With low temp bardener_B62V211	40°F (4.5°C)	55°F (13°C)	77°F (25°C)	
Total mils (microns) ~Coverage sq ft/gal (m	<b>18.0</b> (44 <sup>2</sup> /L) <b>per ct. 72</b> (1.7	, (	0) <b>20.0</b> (500) <b>130</b> (32)	<b>24.0</b> (600) <b>160</b> (3.9)	Touch:	24 hours	<b>50% RH</b> 5 hours	3 hours	
Theoretical coverage (m²/L) @ 1 mil / 25 m		<b>1568</b> (38.4)			Handle: Recoat:	48 hours	24 hours	8 hours	
Can be applied in one coat up to 50 mils (1,250 microns). NOTE: Brush or roll application recommended for stripe coating and repair only. Standard hardener preferred for brush & roll due to pot life.			minimum: maximum: Cure to service:		24 hours 21 days 5 days	8 hours 14 days 3 days			
Shelf Life: 36 months, unopened			Heat cure:       8 hours @ ambient, then 16 hours @ 140°F (60°C (not NSF approved)						
Flash Point:	>200°F (93°C	indoors at 40°F (4.5°C) to 100°F (38°C). °F (93°C), PMCC, mixed			Pot Life*: Sweat-in-time:	20 minutes 5 minutes	20 minutes none	10 minutes none	
Reducer: Clean Up:		lot recommended* 1.E.K. or Reducer #104				*Pot life is dependent upon temperature and mass			
Weight:	10.52 ± 0.2 lb/gal ; 1.26 Kg/L, mixed				Drying time is temperature, humidity, and film thickness dependent. If maximum recoat time is exceeded, abrade surface before recoating.				
*For NSF application regarding Product Bu	· ·								

regarding Product Bulletin: "Dura-Plate UHS Application Guide"

### 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.

) micron) sharp and angular
J-3/NV-2
(50-75 micron) sharp and
No. 5, WJ-2/NV-2 (marine
R CSP 2-3
1





Protective & Marine Coatings

# DURA-PLATE® UHS EPOXY TANK LINING

APPLICATIO	N		APPLICATION CONDITIONS			
Airless Spray         74:1 pump, n           Unit	imum (415 b າm)		Temperature (air & surfa Standard Hardeners: Low Temp Hardener:	ace): 50°F (10°C) minimum, 110°F (43°C) maximum 40°F (4.5°C) minimum, 77°F (25°C) maximum At least 5°F (2.8°C) above dew point		
During extended downtime or after a long period of be required to flush equipment with MEK or Reduce		iying, it may	Material should be 70°F performance.	<sup>=</sup> (21°C) to 85°F (29°C) for optimal		
Plural Component EquipmentAcceptable			Relative humidity:	85% maximum		
BrushFor stripe co BrushNylon/Polyes	ating and rep ter or Natura	oair only al Bristle	<ul> <li>APPROVALS</li> <li>NSF approved to Standard 61/600 for potable water (tanks of 1000 gallons or greater and pipes of 30" diameter or greater)</li> <li>NSF approved for one coat application up to 50.0 mils (1250 microns) dft if required</li> <li>Meets MIL-PRF-23236, Type VII, Class 5, 7, 9 and 11, Grade C (standard hardener only)</li> <li>Acceptable for use in Canadian Food Processing facilities</li> </ul>			
RollerFor stripe co Cover3/8" woven w	ating and rep vith solvent re	oair only esistant core				
If specific application equipment is not lis equipment may be substituted.	sted above, o	equivalent				
RECOMMENDED S	STEMS		categories: D4 (Confirm acceptance of specific part numbers /			
Dry Film Thickness / ct.	<u>Mils</u>	(Microns)	<ul> <li>rexes with your SW Sales Representative)</li> <li>Meets or exceeds the requirements of AWWA C210-15</li> <li>Meets EI 1541 Section 2.2</li> </ul>			
Steel, Immersion (Potable Water) 1 Ct. Dura-Plate UHS	16.0-50.0	(400-1250)		TIONAL NOTES		
or 2 Cts. Dura-Plate UHS or	8.0-25.0	(200-625)	Do not tint Part A.	0 and B62V211 may be tinted with up to		
or 3 Cts. Dura-Plate UHS	6.0-16.0	(150-400)	1½ oz.per gallon with Maxitoner Colorant, Phthalo Green or Black (both NSF approved) ONLY.			
Steel, Immersion & Atmospheric2 Cts.Dura-Plate UHS6.0-7.0(150-175)			Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.			
or 1 Ct. Dura-Plate UHS or	18.0-22.0	(450-550)	Do not mix previously cat	-		
2 Cts. Dura-Plate UHS	10.0-12.0	(250-300)	White B62W211 contains approved).	OAP fluorescent pigment (NSF		
Steel, with Hold Primer1 Ct.Macropoxy 2401 Ct.Dura-Plate UHS	1.0-1.5 18.0-22.0	(25-37) (450-550)	coating system incorporat found in SSPC-TU 11.	and required equipment to inspect a ting Opti-Check OAP Technology can be		
NOTE: Dura-Plate UHS may be applied up to 50 mils (1,250 microns), depending conditions. Consult your Sherwin-Willian additional information.	g on applicat	tion	Note: Recommended application procedure direct to steel: Apply a 5.0-6.0 mil (125-150 micron) coat to the substrate. Allow material to "wet" the surface. Then apply additional material, to bring total film thickness to the recommended range.			
			Suitable for use with cathodic protection systems.			
The systems listed above are representause, other systems may be appropriate.	ative of the p	oroduct's		TH AND SAFETY		
WARRANTY		f manuft'	your Sherwin-Williams represent	se. uctions are subject to change without notice. Contact ative for additional technical data and instructions.		
The Sherwin-Williams Company warrants our produce defects in accord with applicable Sherwin-Williams que for products proven defective, if any, is limited to repl	ality control pro	cedures. Liability		DISCLAIMER		
or the refund of the purchase price paid for the defi Sherwin-Williams. NO OTHER WARRANTY OR C MADE BY SHERWIN-WILLIAMS, EXPRESSED C OPERATION OF LAW OR OTHERWISE, INCLUE FITNESS FOR A PARTICULAR PURPOSE.	ective product a UARANTEE O DR IMPLIED, S	s determined by F ANY KIND IS TATUTORY, BY	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			