Protective & Marine Coatings

DURA-PLATE® 301W
LOW TEMPERATURE CURE MOISTURE TOLERANT EPOXY

PART A	B62-335	SERIES
PART B	B62V335	HARDENER

Revised: June 11, 2025

PRODUCT INFORMATION

4.66

PRODUCT DESCRIPTION

DURA-PLATE 301W is the low temperature application and curing version of our DP301K ultra surface and moisture tolerant high solids epoxy coating platform. It may be applied at ambient and substrate temperatures as low as 35°F (2°C) and is engineered to provide outstanding adhesion and anti-corrosion performance over a wide range of surface preparation techniques including water jetting, abrasive blasting, and hand or power tool cleaning. The unique formulation of DP 301W allows it be applied over damp and medium flash rusted metal substrates and without dew point restrictions. This characteristic significantly broadens acceptable application windows to drive efficiencies in coating schedules for both new construction and maintenance projects.

- Excellent substrate and intercoat adhesion
- No dew point or relative humidity restrictions
- Excellent anti-corrosive properties
- May be applied over medium flash rust
- Approved at substrate and ambient temperatures as low as 35°F (2°C)

PRODUCT CHARACTERISTICS

Color:	Red Oxide, Off White, and Gray
Volume Solids:	97 ± 3%, mixed (theoretical)
VOC:	<100 g/L ; 0.83 lb/gal
Mix Ratio:	7:3 by volume
Recommended Application Methods:	Airless Spray, Brush

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**4.1** (103)	**12.3** (309)
Dry mils (microns)	**4.0** (100)	**12.0** (300)
~Coverage sq ft/gal (m^2/L)	**130** (3.2)	**389** (9.5)

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

Drying Schedule

	@ 35°F/2°C	@ 50°F/10°C *50% RH*	@ 75°F/24°C
To touch:	21 hours	15 hours	4.5 hours
To recoat:			
minimum:	48 hours	24 hours	8 hours
maximum:	6 months	6 months	6 months
To handle:	48 hours	24 hours	20 hours
Pot life:	90 minutes	50 minutes	30 minutes

Drying time is temperature, humidity, and film thickness dependent.

Shelf Life:	12 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C)
Flash Point:	Base: 212°F (102°C) Curing agent: 220°F (104°C)
Reducer:	Not recommended
Clean Up:	MEK

RECOMMENDED USES

DURA-PLATE 301W is an anti-corrosive coating for long service life protection of marine and industrial plant assets. It is a surface and moisture tolerant epoxy coating that provides excellent performance in a wide array of applications in both immersion and atmospheric exposures including new construction, conversion, repair, and maintenance overcoat applications.

- Marine external hulls, decks, ballast and void tanks, bilges and wet spaces
- Oil & Gas offshore platforms, refineries, storage tanks, piping, and structural steel
- Steel bridges
- Water / Wastewater dams, pipe galleries, penstocks, tank externals
- Food and Beverage – suitable for use in USDA inspected facilities

- NSF Certified Environmental Product Declaration (EPD) available on Ecomedes

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Adhesion (Pull-off) ASTM D4541	After application and curing	1740 - 2500 psi 12.0 - 17.2 MPa
	After 1000 hrs salt fog	1350 - 1550 psi 9.3 - 10.8 MPa
	After 2000 hrs salt fog	1305 psi / 9.0 MPa
	After 1000 hrs condensation	1500 - 1800 psi 10.3 - 12.4 MPa
Atmospheric Exposure	12 months	Rust rating: 10 Blistering rating: 10 Scribe undercut: 1.0mm
Cathodic Disbonding	ASTM G8	Passes
Humidity Resistance	ASTM D4585, 1000 hrs. ASTM D4585, 2000 hrs.	ASTM D1654, Rating:10 No defects
Salt Fog Resistance	ASTM B117, 1000 hours ASTM B117, 2000 hours	D1654: Rating: 10 No defects

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RECOMMENDED SYSTEMS

	Dry Film Thickness / ct. Mils	(Microns)
Immersion or Atmospheric		
1-2 cts. Dura-Plate 301W	4.0-12.0	(100-300)
1-3 cts. Dura-Plate 301W	4.0-6.0	(100-150)
Atmospheric		
1-2 cts. Dura-Plate 301W	4.0-6.0	(100-150)
*1-2 cts. Topcoat	2.0-4.0	(50-100)

*Polyurethane and Isocyanate free topcoats from the Sherwin-Williams portfolio

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

APPLICATION CONDITIONS

Temperature:
Ambient:
Minimum: 35°F/2°C
Substrate:
Minimum: 35°F/2°C
Maximum: 122°F/50°C

Relative humidity: No restrictions

Refer to product Application Bulletin for detailed application information.

TINTING

Do not tint.

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.

SURFACE PREPARATION

Surface must be clean and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

DURA-PLATE 301W is tolerant to hydroblasted, wet or dry abrasive blasted or mechanically treated surfaces.

***Abrasive blasting:** SSPC SP6 or NACE 3 (ISO 8501-4)
Hydroblasting: WJ-2M (SSPC SP12)
***Mechanical Treated:** SSPC SP3 (ISO 8501 -1:1988)

*Recommended surface profile 2-3 mils (50-75 microns)

Additional Advantages: Independently of the type of surface preparation, DURA-PLATE 301 moisture tolerance allows for a clean water surface washing before coating to reduce salt contamination. This procedure allowance means that SC2 non-visual standards (NACE 5 / SSPC-SP12) can easily be reached. DURA-PLATE 301 iron oxides tolerance allows to proceed with the coating application even over a considerably flash rusted surface (equivalent to M degree as described at SSPC VIS4 (I) / NACE Nº7 standard).

Recoating over old paints in good condition: DURA-PLATE 301W in most cases can be applied over existing sound coating systems. Adhesion with existing coatings should be tested in a small area, before painting. Also, the adhesion of the old material should be verified. All loose materials should be removed. Please contact our Technical Support team to evaluate surface preparation alternatives. Acceptable cleaning and degreasing the surface is required. Abrading the old coating surface, to promote adhesion, is also recommended.

Surface Preparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal		Sa 3	Sa 3	SP 5	1
Near White Metal		Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

ORDERING INFORMATION

Packaging and Weight:

5 Gal kit: Part A: 2.3 US gal in a 5 US gal container
Part B: 1 US gal in a 1 US gal container

DISCLAIMER

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Commercial Blast		Sa 2	Sa 2	SP 6	3
Brush-Off Blast		Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	Rusted	C St 2	C St 2	SP 2	-
	Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted	C St 3	C St 3	SP 3	-
	Pitted & Rusted	D St 3	D St 3	SP 3	-

APPLICATION CONDITIONS

Temperature:
Ambient:
Minimum: 35°F/2°C
Substrate:
Minimum: 35°F/2°C
Maximum: 122°F/50°C

Relative humidity: No restrictions

Refer to product Application Bulletin for detailed application information.

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Clean Up .....MEK or R7K104

Airless Spray
Pressure.....3625 - 4350 psi (250-300 bar)
Tip .....015" - .021" (0.38 - 0.53mm)
Reduction.....None

Conventional Spray
Gun .....DeVilbiss MBC-510
Fluid Tip .....D
Cap 64HD
Atomization Pressure.....35-40 psi
Fluid Pressure.....15 psi
Fluid & Air Lines.....3/8"

Plural Component Equipment
Pump.....Graco XM70, ExtremeMix or equivelant
Pressure.....5,000 psi
Hose.....3/8" ID
Tip .....015" - .021"
Pump Heater Setting.....80-90

Brush (for stripe coating and repair only)
Brush.....Nylon/polyester or natural bristle

Roller (for stripe coating and repair only)
Cover .....3/8" woven with solvent resistant core

If specific application equipment is not listed above, equivalent equipment may be substituted.

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APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions: Mix paint thoroughly to a uniform consistency with low speed power agitation prior to use.

Apply paint at the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	**4.1** (103)	**12.3** (309)
Dry mils (microns)	**4.0** (100)	**12.0** (300)
~Coverage sq ft/gal (m^2/L)	**130** (3.2)	**389** (9.5)

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

Drying Schedule

	@ 35°F/2°C	@ 50°F/10°C *50% RH*	@ 75°F/24°C
To touch:	21 hours	15 hours	4.5 hours
To recoat:			
minimum:	48 hours	24 hours	8 hours
maximum:	6 months	6 months	6 months
To handle:	48 hours	24 hours	20 hours
Pot life:	90 minutes	50 minutes	30 minutes

Drying time is temperature, humidity, and film thickness dependent.

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with MEK. Clean tools immediately after use with MEK. Follow manufacturer's safety recommendations when using any solvent.

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PERFORMANCE TIPS

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.

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, overthinning, climatic conditions, and excessive film build.

Reduction of material will affect film build, appearance, and adhesion.

Do not mix previously catalyzed material with new.

Do not apply the material beyond recommended pot life.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with reducer R6K10 (MEK) or R7K104.

Holiday Detection (if required)**:** Prior to immersion service, test coating with appropriate holiday detection equipment. Refer to NACE RPO188-0 for specific procedures.

Refer to Product Information sheet for additional performance characteristics and properties.

SAFETY PRECAUTIONS

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.

WARRANTY

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