



**Protective  
&  
Marine  
Coatings**

**DURA-PLATE® 154  
EPOXY SPLASH ZONE COATING**

**PART A  
PART B**

**B62A320  
B62V320**

**GRAY  
HARDENER**

Revised: June 20, 2019

**PRODUCT INFORMATION**

9.01

**PRODUCT DESCRIPTION**

**DURA-PLATE 154 EPOXY SPLASH ZONE COATING** is a high solids, high build amine epoxy coating that will withstand extreme conditions of abrasion and corrosion. It can be applied from 10-40 mils (250-1000 microns) dry in one coat and over prepared, damp substrates while providing adequate adhesion and a protective film.

- Easy to apply
- Low odor
- Chemical resistant
- Corrosion resistant

**PRODUCT CHARACTERISTICS**

<b>Finish:</b>	Semi-Gloss
<b>Color:</b>	Gray
<b>Volume Solids:</b>	85% ± 2%, mixed
<b>Weight Solids:</b>	92% ± 2%, mixed
<b>VOC calculated:</b>	Unreduced:<150 g/L; 1.28 lb/gal mixed Reduced 10%: <200 g/L; 1.67 lb/gal
<b>Mix Ratio:</b>	1:1 by volume

**Recommended Spreading Rate per coat:**

	Minimum	Maximum
<b>Wet mils (microns)</b>	<b>12.0</b> (300)	<b>46.0</b> (1150)
<b>Dry mils (microns)</b>	<b>10.0</b> (250)	<b>40.0</b> (1000)
<b>~Coverage sq ft/gal (m<sup>2</sup>/L)</b>	<b>34</b> (0.83)	<b>136</b> (3.3)
<b>Theoretical coverage sq ft/gal (m<sup>2</sup>/L) @ 1 mil / 25 microns dft</b>	<b>1360</b> (33.3)	

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

**Drying Schedule @ 15.0 mils wet (375 microns):**

	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 90°F/32°C
<b>To touch:</b>	5 hours	4 hours	2 hours
<b>To handle:</b>	30 hours	14 hours	12 hours
<b>To recoat:</b>			
<b>minimum:</b>	30 hours	14 hours	12 hours
<b>maximum:</b>	10 days	7 days	5 days
<b>To service:</b>	30 hours	14 hours	12 hours
<b>To cure:</b>	10 days	7 days	5 days

*If maximum recoat time is exceeded, abrade surface before recoating.*

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

**Pot Life:** tbd 45 minutes tbd

**Sweat-in-Time:** None required None required None required

<b>Shelf Life:</b>	12 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C)
<b>Flash Point:</b>	101°F (39°C), Seta flash, mixed
<b>Reducer/Clean Up:</b>	Xylene, R2K4

**RECOMMENDED USES**

For use over prepared steel and concrete surfaces in industrial exposures such as:

- Offshore platforms (splash zones)
- Pulp and paper mills
- Water treatment plants
- Chemical plants
- Refineries
- Suitable for use in USDA inspected facilities

**PERFORMANCE CHARACTERISTICS**

**Substrate\*:** Steel

**Surface Preparation\*:** SSPC-SP10/NACE 2

**System Tested\*:**

2 cts. Dura-Plate 154 @ 12.0 mils (300 microns) dft/ct  
\*unless otherwise noted below

Test Name	Test Method	Results
<b>Abrasion Resistance</b>	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	123 mg loss
<b>Adhesion</b>	ASTM D4541	750 psi
<b>Direct Impact Resistance</b>	ASTM G14	26 in. lb.
<b>Dry Heat Resistance</b>	ASTM D2485	250°F (121°C)
<b>Pencil Hardness</b>	ASTM D3363	4H



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### RECOMMENDED SYSTEMS

	Dry Film Thickness / ct.	
	Mils	(Microns)
<b>Steel:</b>		
1-2 cts. Dura-Plate 154 Epoxy Splash Zone Coating	10.0-40.0	(250-1000)
<b>Concrete/Masonry:</b>		
1-2 cts. Dura-Plate 154 Epoxy Splash Zone Coating	10.0-40.0	(250-1000)

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

### 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.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

Iron & Steel:  
 Atmospheric: SSPC-SP6/NACE 3, 2 mil (50 micron) profile  
 Splash Zone/Immersion: SSPC-SP10/NACE 2, 2 mil (50 micron) profile

Concrete & Masonry:  
 Atmospheric: Cured, clean, dry, sound  
 Splash Zone/Immersion: Brush Blast

#### 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	-
Rusted	C St 3	C St 3	SP 3	-
Power Tool Cleaning	Pitted & Rusted D St 3	D St 3	SP 3	-

### TINTING

Do not tint.

### APPLICATION CONDITIONS

Temperature: 55°F (13°C) minimum, 100°F (38°C) maximum (air, surface, and material)  
 At least 5°F (2.8°C) above dew point  
 Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

### ORDERING INFORMATION

Packaging:  
 Part A: 5 gallon (18.9L) container  
 Part B: 5 gallon (18.9L) container  
 Weight: 12.9 ± 0.2 lb/gal ; 1.55 Kg/L  
 may vary with color

### SAFETY PRECAUTIONS

Refer to the MSDS 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

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.

### DISCLAIMER

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## APPLICATION BULLETIN

9.01

### SURFACE PREPARATIONS

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.

#### Iron & Steel

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For Splash Zone areas, the minimum surface preparation is Near White Metal Blast per SSPC-SP10/ NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

#### Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910. Primer required.

#### Follow the standard methods listed below when applicable:

ASTM D4258 Standard Practice for Cleaning Concrete.  
ASTM D4259 Standard Practice for Abrading Concrete.  
ASTM D4260 Standard Practice for Etching Concrete.  
ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.  
SSPC-SP 13/Nace 6 Surface Preparation of Concrete.  
ICRI No. 310.2R Concrete Surface Preparation.

#### Concrete, Immersion Service:

For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICRI No. 310.2R, CSP 2-3.

#### 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
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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: 55°F (13°C) minimum, 100°F (38°C) maximum (air, surface, and material)  
At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

### 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.

Reducer/Clean Up .....Xylene, R2K4

#### Airless Spray

Unit.....30:1 Pump  
Pressure.....2800-3000 psi  
Hose.....3/8" ID  
Tip .....0.033" - .037"  
Filter .....30 mesh  
Reduction.....As needed up to 10% by volume

#### Conventional Spray

Oil and moisture separators recommended  
Gun .....DeVilbiss MBC-510  
Fluid Tip .....D  
Air Cap.....64  
Hose.....3/8"  
Reduction.....As needed up to 10% by volume

#### Brush

Brush.....Nylon/Polyester or Natural Bristle  
Reduction.....Not recommended

#### Roller

Cover .....3/8" woven with solvent resistant core  
Reduction.....Not recommended

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.

Mix contents of each component thoroughly using low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine one part by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. Re-stir before using.

If reducer solvent is used, add only after both components have been thoroughly mixed.

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

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	12.0 (300)	46.0 (1150)
Dry mils (microns)	10.0 (250)	40.0 (1000)
~Coverage sq ft/gal (m <sup>2</sup> /L)	34 (0.83)	136 (3.3)
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NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

#### Drying Schedule @ 15.0 mils wet (375 microns):

	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 90°F/32°C
To touch:	5 hours	4 hours	2 hours
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To recoat:			
minimum:	30 hours	14 hours	12 hours
maximum:	10 days	7 days	5 days
To service:	30 hours	14 hours	12 hours
To cure:	10 days	7 days	5 days

If maximum recoat time is exceeded, abrade surface before recoating.

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

Pot Life: tbd 45 minutes tbd

Sweat-in-Time: None required None required None required

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 Xylene, R2K4. Clean tools immediately after use with Xylene, R2K4. 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.

Excessive reduction of material can 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 Xylene, R2K4.

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

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