



# Protective & Marine Coatings

# DURA-PLATE® 5800

PART A  
PART B

B62-450  
B62V450

SERIES  
HARDENER

Revised: January 15, 2024

## PRODUCT INFORMATION

TRM .29

### PRODUCT DESCRIPTION

**DURA-PLATE 5800** is a 100% solids high build epoxy coating designed for the corrosion protection of concrete and steel in municipal and industrial wastewater treatment facilities and general industrial areas containing concentrated acids and alkali.

- 100% solids
- Low odor
- Tolerates moisture during cure
- Resistant to hydrogen sulfide gas, carbon dioxide gas and microbologically induced corrosion by sulfuric acid formation
- Resistant to water and wastewater treatment immersion
- May be applied as mortar system using type DP aggregate

### PRODUCT CHARACTERISTICS

<b>Finish:</b>	Gloss
<b>Color:</b>	Haze Gray, Tile Red
<b>Volume Solids:</b>	100%, calculated, mixed
<b>VOC (calculated):</b>	<100 g/L ; 0.83 lb/gal, mixed
<b>Mix Ratio:</b>	2A:1B by volume

### Recommended Spreading Rate per coat:

	Minimum	Maximum
<b>Wet mils (microns)</b>	<b>15.0</b> (375)	<b>20.0</b> (500)
<b>Dry mils (microns)</b>	<b>15.0</b> (375)	<b>20.0*</b> (500)*
<b>~Coverage sq ft/gal (m<sup>2</sup>/L)</b>	<b>80</b> (2.0)	<b>107</b> (2.6)
<b>Theoretical coverage sq ft/gal (m<sup>2</sup>/L) @ 1 mil / 25 microns dft</b>	<b>1604</b> (39.4)	

\*Varies with system and application. May be applied up to 60-70 mils (1500-1750 microns). See recommended systems.

*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):

@ 73°F/23°C

50% RH

<b>To touch:</b>	8 hours
<b>To recoat:</b>	
<b>minimum:</b>	10 hours
<b>maximum:</b>	36 hours
<b>Water/Waste water service:</b>	36 hours
<b>To cure:</b>	3 days

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

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

**Pot Life (1 gal mass):** 40 minutes

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

<b>Shelf Life:</b>	18 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C).
<b>Viscosity (mixed):</b>	28,000-33,000 cps
<b>Reducer:</b>	Not recommended
<b>Clean Up:</b>	Xylene, R2K4

### RECOMMENDED USES

Used as a coating and as a binder resin with select aggregate in mortar lining applications.

Protects concrete and steel surfaces in immersion and atmospheric exposure.

Ideally suited for coating, lining, and containment applications in water and waste water facilities including:

- |                 |                 |                     |
|-----------------|-----------------|---------------------|
| • Lift stations | • Concrete pipe | • Wet wells         |
| • Steel pipe    | • Manholes      | • Sumps             |
| • Digesters     | • Trenches      | • Clarifiers        |
| • Sluice ways   | • Basins        | • Influent chambers |



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### RECOMMENDED SYSTEMS

		Dry Film Thickness / ct.	
		Mils	(Microns)
<b>Concrete, medium film coating:</b>			
2 cts.	Dura-Plate 5800	15.0-20.0	(375-500)
<b>Concrete, medium film coating (with bug hole filler):</b>			
1 ct.	Steel-Seam FT910 as required for filling voids and bugholes on concrete		
2 cts.	Dura-Plate 5800	15.0-20.0	(375-500)
<b>Concrete (lining with optional Primer):</b>			
1 ct.	Corobond 100 Epoxy Primer/Sealer	4.0-6.0	(100-150)
1-2 cts.	Dura-Plate 5800	60.0-70.0	(1500-1750)
<b>*Concrete, mortar (lining and resurfacing):</b>			
1 ct.	Dura-Plate 5800 with 28 lbs Type DP Aggregate per 1.5 gallons/1/8" dft yields 32 square feet		
<b>*Concrete, mortar (with optional primer and topcoat):</b>			
1 ct.	Corobond 100 Epoxy Primer/Sealer	4.0-6.0	(100-150)
1 ct.	Dura-Plate 5800 with 28 lbs Type DP Aggregate per 1.5 gallons 1/8" dft yields ~32 square feet		
1 ct.	Dura-Plate 5800	15.0-20.0	(375-500)
<b>Steel, medium film coating:</b>			
1 ct.	Macropoxy 240 (as required for hold primer)	3.0-5.0	(75-150)
1 ct.	Steel-Seam FT910 as required for filling pits and transitioning sharp edges, weld seams, etc. on steel		
2 cts.	Dura-Plate 5800	15.0-20.0	(375-500)

\*Consult your Sherwin-Williams Representative regarding Product Bulletin: "Dura-Plate Epoxy Mortars"

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

### DISCLAIMER

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 Information and Application Bulletin.

### 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:

<b>Iron &amp; Steel:</b>	
Atmospheric:	SSPC-SP6/NACE 3, 2 mil (50 micron) profile
Immersion:	SSPC-SP10/NACE 2, 2-3 mil (50-75 micron) profile
<b>Concrete &amp; Masonry:</b>	
Atmospheric:	SSPC-SP13/NACE 6
Immersion:	SSPC-SP13/NACE 6-4.3.1 or 4.3.2 ICRI Technical Guideline No. 310.2R CSP 3-5

#### 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	Rusted C St 2	C 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:	50°F (10°C) minimum, 90°F (32°C) maximum (air, surface, material) At least 5°F (2.8°C) above dew point
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Refer to product Application Bulletin for detailed application information.

### ORDERING INFORMATION

<b>Packaging:</b>	
Part A:	2 gallons (7.5L) in a 3 gallon (11.3L) container and 5 gallons (18.9L)
Part B:	1 gallon (3.78L) and 5 gallons (18.9L)

### 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

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.



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## APPLICATION BULLETIN

TRM .29

### 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 (immersion service)

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2-3 mils / 50-75 microns). Remove all weld spatter and round all sharp edges. Prime any bare steel the same day as it is cleaned or before flash rusting occurs. Use Steel-Seam FT910 to fill pits and transition sharp edges, weld seams, etc. on steel.

#### Iron & Steel (atmospheric service)

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 better performance, use Near White Metal Blast Cleaning 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. Use Steel-Seam FT910 to fill pits and transition sharp edges, weld seams, etc. on steel.

#### Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 3-5. 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. May be applied to an SSD (Saturated Surface Dry) substrate.

#### 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 3-5.

#### 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	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	-

### APPLICATION CONDITIONS

Temperature: 50°F (10°C) minimum, 90°F (32°C) maximum  
(air, surface, material)  
At least 5°F (2.8°C) above dew point

### 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 ..... Not recommended

Clean Up ..... Xylene, R2K4

#### Plural Component Spray

Pump Ratio ..... Graco Xtreme mix 360 (68:1)  
Gun ..... Graco XTR  
Fluid Hose ..... 3/8" to 1/2" ID  
Tip Orifice ..... .021" to .025"  
Fan Width at 12" ..... 10"  
Fluid Pressure ..... 2,000-3600 psi  
Filter Screen ..... 60 mesh  
Transfer Pump ..... 5:1 ratio each side  
Static Mixing Tube ..... 1/2" ID, with 32 turns

#### Brush

Brush ..... Natural bristle

#### Roller

Cover ..... 3/8" nap for coatings

#### Trowel

Flat trowel ..... For mortar applications

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.

**Optional Primers:** Apply optional primer as indicated, following application procedures of the products listed in Recommended systems.

#### Mixing Instructions:

Premix individual components separately, using a low-speed drill and Jiffy Blade model ES mixer. Make certain no pigment remains on the bottom or sides of the can. Combine one part by volume of Part B to two parts by volume of Part A. Mix with low speed drill and Jiffy Blade model ES mixer for three minutes and until uniform (unless using plural component equipment).

#### For coatings applications:

Combine parts A and B as instructed above. To insure that no unmixed materials remain on the sides and bottom of the cans after mixing, visually observe the container by pouring the material into a separate container. Marbled or streaky appearance is an indication of improper mixing. Apply via brush, roller or spray to the film thickness and spreading rate indicated below.

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns)	15.0 (375)	20.0 (500)
Dry mils (microns)	15.0 (375)	20.0* (500)*
~Coverage sq ft/gal (m <sup>2</sup> /L)	80 (2.0)	107 (2.6)
Theoretical coverage sq ft/gal (m <sup>2</sup> /L) @ 1 mil / 25 microns dft	1604 (39.4)	

\*Varies with system and application. May be applied up to 60-70 mils (1500-1750 microns). See recommended systems.

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

#### For mortar applications: (lining and resurfacing)

Consult your Sherwin-Williams Representative regarding Product Bulletin: "Dura-Plate Epoxy Mortars"

#### Recommended Spreading Rate per coat as a mortar:\*

Wet mils: 1/16" - 1/8"  
Dry mils: 1/16" - 1/8"  
Coverage: ~32 - 64 sq ft/1.5gal/28lb unit approximate

\*Varies with system and application. See recommended systems.

### 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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### APPLICATION GUIDELINES

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

@ 73°F/23°C  
50% RH

To touch: 8 hours  
To recoat:  
    minimum: 10 hours  
    maximum: 36 hours  
Water/Waste water service: 36 hours  
To cure: 3 days

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

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

Pot Life (1 gal mass): 40 minutes

Sweat-in-Time: None required

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

### PERFORMANCE TIPS

Read and understand the individual Systems Installation Procedures for thin film linings, medium film linings, laminate linings, self-leveling, mortars, mortar laminates and heavy duty mortar laminates.

For concrete, always perform Calcium Chloride test as per ASTM F1869. Do not proceed with MVE >3 lbs.

For steel, stripe coat all chine, welds, bolted connections, and sharp angles to prevent early failure in these areas.

Pot life of this material is moderately short. Working time can be extended by mixing small batches and by getting material out of mixing containers and on to the working surface in desired film thickness as quickly as possible.

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.

**For Immersion Service:** (if required) Holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.

Consult your Sherwin-Williams representative for specific application and performance recommendations.

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

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