



# Protective & Marine Coatings

# DURA-PLATE® 2300

(FORMERLY COROBOND 300)  
WATERBASED EPOXY  
CEMENTITIOUS RESURFACER

KIT	B58A320	DURA-PLATE 2300 KIT
PART A	2300A	CONCRETE GRAY
PART B	2300B	HARDENER
PART C	2300C	MORTAR

Revised: March. 03, 2016

## PRODUCT INFORMATION

TRM.68

### PRODUCT DESCRIPTION

**DURA-PLATE 2300** is a three component, epoxy modified cementitious resurfacer containing Portland Cement, hydrophobic thixotropes, fiber reinforcement, graded silica sand and other abrasion resistant aggregates. It is used for resurfacing, patching and filling voids (bugholes) in concrete and masonry structures. Dura-Plate 2300 provides a hard durable surface with excellent adhesion that minimizes out-gassing problems typically associated with coating concrete.

### PRODUCT DESCRIPTION

<b>Finish:</b>	Flat
<b>Color:</b>	Concrete Gray
<b>Density:</b>	110 lb/cubic ft.
<b>Volume Solids:</b>	100%, mixed
<b>VOC:</b>	19 g/L; 0.15 lb/gal, mixed
<b>Mix Ratio:</b>	3.1 gallon, pre-measured kit

#### Recommended Spreading Rate:

Coverage for 3.1 gallon kit: Approximately 77 ft<sup>2</sup> (7.2 m<sup>2</sup>) at 1/16" thickness; 38.5 ft<sup>2</sup> (3.6m<sup>2</sup>) at 1/8" thickness; 19.25 ft<sup>2</sup> (1.8 m<sup>2</sup>) at 1/4" thickness; 10 ft<sup>2</sup> (1.7 m<sup>2</sup>) at 1/2" thickness

#### Drying Schedule:

@ 77°F/25°C  
50% RH

<b>To touch:</b>	3-4 hours
<b>Topcoat/Overcoat:</b>	
<b>minimum:</b>	8 hours
<b>maximum:</b>	Unlimited
<b>Full cure:</b>	12 days
<i>Drying time is temperature, humidity, and film thickness dependent.</i>	
<b>Pot Life:</b>	70 minutes
<b>Sweat-in-Time:</b>	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>	>200°F (93°C), mixed
<b>Reducer:</b>	Not recommended
<b>Clean Up:</b>	Soap and warm water

### RECOMMENDED USES

Concrete Structures

- Water
- Wastewater
- Secondary containment
- Power
- Food and Beverage
- Sewer Collection Systems

### PERFORMANCE CHARACTERISTICS

**Substrate\*:** Concrete

**Surface Preparation\*:** SSPC-SP13/NACE 6, ICRI Concrete Surface Profile (CSP) 5

**System Tested\*:**

1 ct. Corobond 300 @ 3/16" dft  
\*28-day cure unless otherwise noted below

Test Name	Test Method	Results
<b>Adhesion to Concrete</b>	ASTM D7234	403 psi* / >438 psi**
<b>Coefficient of Thermal Expansion</b>	ASTM C531	6.9 x 10 <sup>-6</sup> in/in/F**
<b>Flexural Strength</b>	ASTM C293	795 psi* / > 1,270 psi**
<b>Linear Shrinkage</b>	ASTM C596 ASTM C531	-0.014%** -0.366%**
<b>Modulus of Elasticity</b>	ASTM C469	>1,680,000 psi* >1,860,000 psi**
<b>Shear Bond</b>	ASTM C882	2,094* / 2,804 psi**
<b>Shrinkage</b>	ASTM C157	<0.18%**
<b>Splitting Tensile Strength</b>	ASTM C496	480 psi* / 600 psi**
<b>Tensile Strength</b>	ASTM C307	>600 psi*

\* 24 hour cure

\*\* 28-day cure



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**RECOMMENDED SYSTEMS**

**Dry Film Thickness / ct.**  
**Mils (Microns)**

**Concrete:**

1 ct. Dura-Plate 2300 to 1/2" maximum thickness

Acceptable topcoats:

- Cor-Cote FRE
- Dura-Plate 5800 (Formerly Cor-Cote SC)
- Dura-Plate 5900 (Formerly Cor-Cote SC Plus)
- Dura-Plate 6100
- Sher-Glass FF
- Sher-Plate PW
- SherFlex with Dura-Plate 235 as a primer

Note: Do not use in conjunction with Vinyl Ester and Polyester coatings or lining systems

**SURFACE PREPARATION**

Surface must be clean, in sound condition, and surface saturated dry. 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:

Concrete & Masonry: SSPC-SP13/NACE 6, or  
ICRI No. 310.2R, CSP 3-5

**TINTING**

Do not tint.

**APPLICATION CONDITIONS**

Temperature: 40°F (4.5°C) minimum, 95°F (35°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: 3.1 gallon kit

Component A: 128 oz

Component B: 4 oz

Component C: 35.5 lbs

Weight: 16 lb/gal, mixed

**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**

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.

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



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**APPLICATION BULLETIN**

TRM.68

**SURFACE PREPARATIONS**

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

**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, loose cement and hardeners.

**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.
- ASTM D4263 Standard Test Method for Indicating Moisture in Concrete by Plastic Sheet Method
- SSPC-SP 13/Nace 6 Surface Preparation of Concrete.
- ICRI No. 310.2R Concrete Surface Preparation.

**APPLICATION CONDITIONS**

Temperature: 40°F (4.5°C) minimum, 95°F (35°C) maximum  
(air, surface, and material)  
At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

**APPLICATION EQUIPMENT**

**Reducer/Clean Up** ..... Soap and warm water

**Apply Material by Using:**

Hand trowel application using a pool trowel or square edge trowel.

Hydraulic spray equipment (i.e. Graco M680 mortar pump or 9.1 WIWA 410 pump) followed by troweling to close the material. No special ACI 308 curing requirements - ambient cure only. Standard concrete finishing trowels, broad knives and rubber floats are recommended. For troweling inside and outside corners, the use of a radius or margin trowel is recommended. Do not overwork material. Trowel marks may be reduced by using a dry sponge to smooth them out.

**Reduction** ..... 2-6 ounces of potable water based on environmental conditions (Contact Tech Service for additional recommendations)

**Brush** ..... Not recommended

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



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## APPLICATION BULLETIN

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### APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

**Mixing Instructions:** Shake or agitate both "A" and "B" Component, then pour "B" Component into a container large enough to hold all components. While mixing, slowly add "A" Component. Mix until liquids are uniformly blended. Material shall only be mixed on slow speed utilizing a mechanical mixer blade. Slowly sift "C" Component into the liquid while continuing to mix. Do not dump all of "C" Component into the liquids at one time. Mix for a minimum of two minutes or until a smooth consistency with no dry cement-sand aggregate is obtained.

For repair of large spalls and other surface imperfections deeper than the recommended maximum thickness, multi-purpose clean, dry silica sand (conforming to ASTM C33) or clean, dry pea gravel can be post added.

Important: Do not add additional "C" Component.

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

#### Recommended Spreading Rate:

Coverage for 3.1 gallon kit: Approximately 77 ft<sup>2</sup> (7.2 m<sup>2</sup>) at 1/16" thickness; 38.5 ft<sup>2</sup> (3.6m<sup>2</sup>) at 1/8" thickness; 19.25 ft<sup>2</sup> (1.8 m<sup>2</sup>) at 1/4" thickness; 10 ft<sup>2</sup> (1.7 m<sup>2</sup>) at 1/2" thickness

#### Drying Schedule:

@ 77°F/25°C  
50% RH

To touch: 3-4 hours

Topcoat/Overcoat:

minimum: 8 hours

maximum: Unlimited

Full cure: 12 days

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

Pot Life: 70 minutes

Sweat-in-Time: 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 soap and warm water. Clean tools immediately after use with soap and warm water. Follow manufacturer's safety recommendations when using any solvent.

### DISCLAIMER

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### PERFORMANCE TIPS

If Dura-Plate 2300 begins to thicken in a pail during use, do not add more water. Simply reagitrate with a drill to bring back the original smooth consistency.

It is possible to add additional water to Dura-Plate 2300 in measured quantities without affecting performance to accommodate spray application. Up to 6 oz. of clean potable water can be added for low pressure spray application.

Overworking or oversaturating the surface will cause a white liquid to appear on the surface and may have an adverse effect on the adhesion of subsequent coatings. If this is evident, allow Dura-Plate 2300 to cure and remove surface deposits using concrete rub brick/stone or other applicable method.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

Do not use in conjunction with Vinyl Ester and Polyester coatings or lining systems.

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

### SAFETY PRECAUTIONS

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