DURA-PLATE® 6100 is a high build, high physical performance, 100% solids epoxy designed for corrosion protection of concrete and steel in municipal and industrial wastewater treatment facilities, especially where a high build and high physical value coating is required.

- 100% solids
- Resistant to water and wastewater treatment immersion
- Resistant to Sulfuric Acid formation caused by MIC in wastewater environments
- May be applied to an SSD (Saturated Surface Dry) substrate
- May be applied as a mortar system using type DP aggregate with no change in chemical resistance

**PRODUCT CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Finish:</th>
<th>Matte</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Off White</td>
</tr>
<tr>
<td>Volume Solids:</td>
<td>100%</td>
</tr>
<tr>
<td>VOC (measured):</td>
<td>&lt;10 g/L (EPA Method 24)</td>
</tr>
<tr>
<td>Weight Solids:</td>
<td>100%, calculated mixed</td>
</tr>
<tr>
<td>Mix Ratio:</td>
<td>2:1, mix by volume</td>
</tr>
</tbody>
</table>

**Recommended Spreading Rate per coat:**

<table>
<thead>
<tr>
<th>Wet mils (microns)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12.0 (300)</td>
<td>125.0 (3125)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dry mils (microns)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12.0 (300)</td>
<td>125.0 (3125)</td>
</tr>
</tbody>
</table>

- Coverage sq ft/gal (m²/L)
  - 12.8 (0.3) to 133.6 (12.4)

**Drying Schedule @ 120.0 mils wet (3000 microns):**

- At 70°F/21°C
- 50% RH
- To touch: 30 minutes
- To handle: 2 hours
- To recoat:
  - Minimum: 15 minutes
  - Maximum: 8 hours
- Cure to service: 6 hours

If maximum recoat time is exceeded, scarify surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

<table>
<thead>
<tr>
<th>Pot Life:</th>
<th>20 minutes @ 77°F / 25°C (1 quart mass)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shelf Life:</td>
<td>24 months, unopened</td>
</tr>
<tr>
<td></td>
<td>Store indoors at 40°F (4.5°C) to 100°F (38°C).</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>Greater than 250°F (121°C), PMCC ASTM D93</td>
</tr>
<tr>
<td>Clean Up/Reducer:</td>
<td>R2KT4 or MEK. Do not thin material.</td>
</tr>
</tbody>
</table>

**Recommended Uses**

Protects concrete and steel surfaces in immersion and atmospheric exposure.

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

- Lift stations
- Influent chambers
- Manholes
- Pipelines
- Sumps
- Trenches
- Basins
- Sluice ways
- Basins
- Digesters
- Trenches
- Wet wells
- Lift stations
- Influent chambers
- Manholes

**Performance Characteristics**

<table>
<thead>
<tr>
<th>Substrate*:</th>
<th>Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Preparation*:</td>
<td>SSPC-SP10</td>
</tr>
</tbody>
</table>

**System Tested**: 1 ct. Dura-Plate 6100 @ 80.0 mils (2000 microns) to 100.0 mils (2500 microns) diff

*unless otherwise noted below

**RESISTANCE GUIDE IMMERSION**

Contact your local Sherwin-Williams Protective & Marine Sales Rep to verify suitability at elevated temperatures.

- Acetic Acid 5% ........................................... Recommended
- Ammonium Hydroxide 5% ................................... Recommended
- Diesel Fuel .......................................................... Recommended
- Ferric Chloride 1% ............................................ Recommended
- Fresh and not potable water ..................................... Recommended
- Gasoline ........................................................... Recommended
- Hypochloric Acid 10% ........................................... Recommended
- Kerosene .......................................................... Recommended
- Nitric Acid 10% .................................................... Recommended
- Sodium Carbonate .................................................. Recommended
- Sodium Chloride 10% ............................................. Recommended
- Sodium Hydroxide 25% .......................................... Recommended
- Sodium Hypochlorite 1% ......................................... Recommended
- Sulfuric Acid 20% ................................................ Recommended

* 1% sodium hypochlorite solution was prepared from fresh standard household bleach where sodium hypochlorite solution concentration was assumed to be 5.25%

**Test Name** | **Test Method** | **Results**
--- | --- | ---
Abrasions | ASTM D4060 | <90 mg loss
Adhesion (Concrete) | ASTM D7234 | Substrate Failure
Adhesion (Steel) | ASTM D4541 | >3,000 psi
Compressive Strength | ASTM D695 | 15,000 psi
Elongation Percent | ASTM D638 | 4.8%
Flexural Modulus | ASTM D790 | 590,000 psi
Flexural Strength | ASTM D790 | 11,000 psi
Hardness, Shore D | ASTM 2240 | 83
Impact Resistance | ASTM D2794 | 30 in. lbs.
Modulus of Elasticity | ASTM D638 | 247,000 psi
Severe Wastewater Analysis Test | ASTM G210 | <20% reduction from initial to final EIS values
Standard Specifications for Public Works Construction (SSPC) | The "Greenbook" - Pickle Jar Testing | Passed and Approved
Tensile Strength | ASTM D638 | 5,600 psi
Water Absorption | ASTM D570 | 0.15%
Water Vapor Transmission | ASTM D1653 | 3.0/gms/m2 (24 hrs)

Epoxy coatings may darken or discolor following application and curing and may chalk when exposed to sunlight.

If maximum recoat time is exceeded, scarify surface before recoating. Drying time is temperature, humidity, and film thickness dependent.
### DURA-PLATE® 6100
**HIGH PERFORMANCE EPOXY**

**PART A**
B62W475

**PART B**
B62V475

**Resin Hardener**

---

### PRODUCT INFORMATION

#### RECOMMENDED SYSTEMS

<table>
<thead>
<tr>
<th>Surface</th>
<th>Dry Film Thickness / ct. Mils (Microns)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ductile Iron Pipe:</strong></td>
<td></td>
</tr>
<tr>
<td>1 ct. Dura-Plate 6100</td>
<td>12.0-50.0 (300-1250)</td>
</tr>
<tr>
<td><strong>Steel (Immersion Service):</strong></td>
<td></td>
</tr>
<tr>
<td>1 ct. Dura-Plate 6100</td>
<td>12.0-50.0 (300-1250)</td>
</tr>
<tr>
<td>Dura-Plate 6100 Ultra can be applied in excess of 125 mils (3,125 microns) thick in multiple coats in areas requiring protection from erosion. Maximum total DFT is 275.0 mils (6,875 microns).</td>
<td></td>
</tr>
<tr>
<td><strong>Buried Concrete (Immersion Service):</strong></td>
<td></td>
</tr>
<tr>
<td>1 ct. Dura-Plate 6100</td>
<td>40.0-125.0 (1000-3125)</td>
</tr>
<tr>
<td><strong>Atmospheric Concrete (Immersion Service):</strong></td>
<td></td>
</tr>
<tr>
<td>1 ct. Corobond 100 or Corobond LT</td>
<td>4.0-8.0 (100-200)</td>
</tr>
<tr>
<td>1 ct. Dura-Plate 6100</td>
<td>40.0-125.0 (1000-3125)</td>
</tr>
<tr>
<td><strong>Concrete, Mortar (Lining and Resurfacing):</strong></td>
<td></td>
</tr>
<tr>
<td>1 ct. Dura-Plate 2300</td>
<td>as needed</td>
</tr>
<tr>
<td>1 ct. Dura-Plate 6100</td>
<td>40.0-125.0 (1000-3125)</td>
</tr>
</tbody>
</table>

*For more information on mixing, reference Protective & Marine technical bulletin - Dura-Plate Epoxy Mortars

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### 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-SP 6/NACE 3, 2 mil (50 micron) profile
  - Immersion: SSPC-SP 10/NACE 2, ≥3 mil (75 micron) profile
- **Concrete & Masonry:**
  - Immersion: SSPC-SP 13/NACE 6-4.3.1 or 4.3.2, or ICRI No. 310.2R, CSP 3-6
- **Ductile Iron Pipe:**
  - Atmospheric and Immersion NAPF 500.03.03 Blast Cleaning

---

### Surface Preparation Standards

<table>
<thead>
<tr>
<th>Condition of Surface</th>
<th>ISO 8501-1:2011</th>
<th>Swedish Std. BS7079:1972</th>
<th>American Std. NACE SSPC-SP 10/NACE 2</th>
<th>NACE SSPC-6/NACE 3 (Immersion Service)</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Metal</td>
<td>Sa 3</td>
<td>Sa 2</td>
<td>Sa 2</td>
<td>Sa 2</td>
</tr>
<tr>
<td>Near White Metal</td>
<td>Sa 2.5</td>
<td>Sa 2.5</td>
<td>Sa 2.5</td>
<td>Sa 2.5</td>
</tr>
<tr>
<td>Commercial Blast</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>Sa 1</td>
</tr>
<tr>
<td>Brush-Off Blast</td>
<td>C St 3</td>
<td>C St 3</td>
<td>C St 3</td>
<td>C St 3</td>
</tr>
<tr>
<td>Hand Tool Cleaning</td>
<td>D St 2</td>
<td>D St 2</td>
<td>D St 2</td>
<td>D St 2</td>
</tr>
<tr>
<td>Power Tool Cleaning</td>
<td>D St 3</td>
<td>D St 3</td>
<td>D St 3</td>
<td>D St 3</td>
</tr>
</tbody>
</table>

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### TINTING

Do not tint.

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### APPLICATION CONDITIONS

- **Temperature:** 50°F (10°C) minimum, 100°F (38°C) maximum (Air and Surface)
- At least 5°F (2.8°C) above dew point
- Material must be preconditioned to 100°F (38°C) for proper heating and mixing through plural component equipment.
- Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

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### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Packaging</th>
<th>Part A:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 gallon (18.9L) container</td>
<td></td>
</tr>
<tr>
<td>50 gallon (189.25L) container</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part B:</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 gallon (18.9L) container</td>
</tr>
<tr>
<td>50 gallon (189.25L) container</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weight:</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4±0.2 lb/gl</td>
</tr>
<tr>
<td>1.4 Kg/L</td>
</tr>
</tbody>
</table>

---

### 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.

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### 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.

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### 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.
**DURA-PLATE® 6100**
**HIGH PERFORMANCE EPOXY**

**APPLICATION BULLETIN**

<table>
<thead>
<tr>
<th>Surface Preparations</th>
<th>Application Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface must be clean, surface dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.</td>
<td>Temperature: 50°F (10°C) minimum, 100°F (38°C) maximum (Air, surface)</td>
</tr>
<tr>
<td><strong>Carbon Steel, Immersion Service:</strong> Clean and degrease the surface prior to abrasive blasting per SSPC-SP 1 Solvent Cleaning. Methods described in SSPC-SP 1 include solvents, alkali, detergent/water, emulsions, and steam. The surface shall be abrasive blasted to SSPC-SP10/NACE No. 2 Near-White Blast Cleaning with a 2 - 3 mil profile. The anchor pattern shall be sharp with no evidence of a polished surface. The finished surface shall be free of all visible oil, grease, dust, dirt, mill scale, rust, coating, oxides, corrosion products, and other foreign matter with no more than 5% staining. After blasting, all dust and loose residue should be removed from the surface by acceptable means. Coat steel the same day as it is prepared and prior to the formation of rust.</td>
<td>Material must be preconditioned to 100°F (38°C) for proper heating and mixing through plural component equipment. Relative humidity: 85% maximum</td>
</tr>
<tr>
<td><strong>Concrete and Masonry, Immersion Service:</strong> Decontamination of the concrete surface requires the removal of oils, grease, wax, fatty acids and other contaminants and may be accomplished by the use of detergent scrubbing with a Sherwin-Williams cleaner and degreaser, low pressure water cleaning (less than 5,000 psi), steam cleaning, or chemical cleaning. The preferred methods for creating a surface profile, including the removal of dirt, dust, laitance and curing compounds, is abrasive blasting or scarifying to achieve an ICRI surface equivalent to CSP 3-6. Fill all cracks, voids, and bug holes with cementitious grout, Steel-Seam FT910 or Corobond 300. See ICRI Technical Guideline No. 310.2R for additional information.</td>
<td>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 environmental and application conditions.</td>
</tr>
<tr>
<td><strong>Ductile Iron Pipe:</strong> Remove all oil and grease from surface by Solvent Cleaning per NAPF 500-03-01. The substrate shall not contain soluble salt concentrations in excess of 3 ppm for chlorides, 5 ppm for nitrates, and 10 ppm for sulfates. Surface with soluble salt concentrations in excess of these values shall be cleaned until satisfactory results are obtained. Minimum surface preparation for large surfaces shall be Abrasive Blast Cleaning for Ductile Iron Pipe per NAPF 500-03-04. Blast clean all surfaces using sharp, angular abrasive for optimum surface profile (3 mils / 75 microns or greater, with no individual reading being less than 2.5 mils / 63 microns per NACE RP0287). Small surface areas (&lt;50 sq. ft.) shall be Power Tool Cleaned per NAPF 500-03-03. Grind all surfaces utilizing mechanical scarification capable of producing the greatest surface profile and shall be performed in a perpendicular pattern to the direction of flow on the substrate.</td>
<td>Application requires a hopper feed or transfer pump delivery of unmixed materials. Changes in pressures and tip sizes may be needed for proper spray characteristics.</td>
</tr>
</tbody>
</table>

**Application Equipment**

- **Clean Up Solvent** Reducer R2KT4 or MEK
- **Airless Spray**
  - Pump: Xtreme Mix 45:1 or 50:1 or Graco XP50 or equivalent
  - Material Heaters: Graco Hi-Flow Heaters or equivalent
  - Pressure: 4,000 - 5,600 psi
  - Transfer Pump: 5:1 Monarch Pumps
  - Hose: 1/2" ID heated hose (Part A) X 3/8" ID heated hose (Part B) to mix manifold + 1/4" ID by 12' whip hose from static mixers to spray gun
  - Manifold: Graco Remote Manifold
  - Static Mixing Tubes: Two (2) 1/2" x 12 turn insert*
  - Gun: Silver Flex, XTR, or Graco Pole Gun
  - Tip: 21-31
  - Material Temperature: Part A - 120-140°F / Part B - 90-110°F
  - Material Temperature at gun tip: 95-140°F (vary as needed)
  - Filter: No tighter than 60 mesh if necessary
  - Reduction: None
- **Brush**
  - For Stripe Coating or repair only
  - Brush: Nylon/Polyester Natural Bristle
- **Roller**
  - For backrolling only
  - Cover: Soft Woven 1/2" or greater
Surface preparation must be completed as indicated.

Mixing Instructions: Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Thoroughly agitate the mixture with power agitation. Load each component into the proper side of the plural component spray pump hoppers or transfer pumps.

Apply paint at the recommended film thickness and spreading:

<table>
<thead>
<tr>
<th>Recommended Spreading Rate per coat:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet mils (microns)</td>
</tr>
<tr>
<td>12.0 (300)</td>
</tr>
<tr>
<td>Dry mils (microns)</td>
</tr>
<tr>
<td>12.0 (300)</td>
</tr>
<tr>
<td>~Coverage sq ft/gal (m²/L)</td>
</tr>
<tr>
<td>12.8 (0.3)</td>
</tr>
</tbody>
</table>

Drying Schedule @ 120.0 mils wet (3000 microns):

- @ 70°F/21°C
- 50% RH

To touch: 30 minutes
To handle: 2 hours
To recoat:
- Minimum: 15 minutes
- Maximum: 8 hours
Cure to service: 6 hours

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

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

For Mortar Applications: (lining and resurfacing)
Refer to Protective & Marine technical bulletin - Dura-Plate Epoxy Mortars for mixing instructions

Clean spills and spatters immediately with Reducer. Clean pump, hose, and gun by flushing system with R2KT4. Then flush tools immediately after use with MEK.

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