**PRODUCT DESCRIPTION**

**DURA-PLATE UHS** is an ultra-high solids, edge retentive epoxy with proven long term performance as a lining for bulk storage tanks, ballast tanks, pipe internals and secondary containment. Applied using normal or plural airless spray.

**INTENDED USES**

An API 652 (thin and thick film) lining for the internal protection of bulk storage tanks and pipes for the storage and transport of crude oil, refined petrochemicals (including aviation fuel) and fresh water. Superior build and pit-filling capabilities makes this lining suitable for new construction and maintenance.

**PRODUCT DATA**

- **SURFACE PREPARATION**
  - Finish: Gloss
  - Colors: Light Gray, White, Light Green
  - Volume Solids: 98% ± 2%, mixed
  - VOC (EPA Method 24): <100 g/L; 0.83 lb/gal
  - Mix Ratio: 4:1 by volume

- **Recommended Spreading Rate per coat:**
  - 1 coat system 2 coat system
    - Wet mils (microns) 18.0 (450) 22.0 (550) 10.0 (250) 12.0 (300)
    - Dry mils (microns) 18.0 (450) 22.0 (550) 10.0 (250) 12.0 (300)
    - Total mils (microns) 18.0 (450) 22.0 (550) 20.0 (500) 24.0 (600)
    - Coverage sq ft/gal (m²/L) per ct. 72 (1.76) 90 (2.2) 130 (32) 160 (3.9)
  - Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft 1568 (38.4)
  - NOTE: Brush or roll application recommended for stripe coating and repair only. Standard hardener preferred for brush & roll due to pot life.

- **Average Drying Times @ 10-22 mils wet (250-550 microns):**
  - With standard hardener
    - 55°F (13°C) 77°F (25°C) 100°F (38°C) 50% RH
      - Touch: 12 hours 5 hours 3 hours
      - Handle: 48 hours 14 hours 8 hours
      - Recoat: minimum: 48 hours 14 hours 8 hours maximum: 21 days 14 days 14 days
      - Cure to service: 10 days 4 days 24 hours
  - With low temp hardener
    - 80°F (4.5°C) 55°F (13°C) 77°F (25°C) 50% RH
      - Touch: 24 hours 5 hours 3 hours
      - Handle: 48 hours 24 hours 8 hours
      - Recoat: minimum: 48 hours 24 hours 8 hours maximum: 30 days 21 days 14 days
      - Cure to service: 7 days 5 days 3 days
  - Heat cure: 8 hours @ ambient, then 16 hours @ 140°F (60°C) (not NSF approved)
  - Pot Life*: 30-45 minutes 30-45 minutes 20-30 minutes
  - Sweat-in-time: 15 minutes none none

- **Shelf Life:** 36 months, unopened
- **Flash Point:** >200°F (93°C), PMCC, mixed
- **Reducer:** Not recommended
- **Clean Up:** M.E.K. or Reducer #104
- **Weight:** 10.52 ± 0.2 lb/gal ; 1.26 Kg/L, mixed
- **Heat cure:** 8 hours @ ambient, then 16 hours @ 140°F (60°C) (not NSF approved)
- **Pot Life**: 30 minutes 20 minutes 10 minutes
- **Sweat-in-time**: 5 minutes none none

- *Pot life is dependent upon temperature and mass

**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.

**Minimum recommended surface preparation:**

  - Immersion: SSPC-SP10/NACE 2/ISO8501-1:2007 Sa 2.5, 2.3 mil (50-75 micron) profile or SSPC-SP12/NACE No. 5, WJ-2/NV-2 (marine exterior hull only)

- **Concrete & Masonry:** Atmospheric: SSPC-SP13/NACE 6, or ICRI No. 310.2R CSP 2-3
  - Immersion: SSPC-SP13/NACE 6-4.3.1 or 4.3.2, or ICRI No. 310.2R CSP 2-3

**Ref:** 1301-1

www.sherwin-williams.com/protective
## APPLICATION

### Airless Spray
- **Unit**: 74:1 pump, minimum
- **Pressure**: 6000 psi minimum (415 bar)
- **Hose**: 3/8" ID (9.5 mm)
- **Tip**: 019"-.021" (0.48-0.53 mm)
- **Filter**: 30 mesh

During extended downtime or after a long period of continuous spraying, it may be required to flush equipment with MEK or Reducer #104.

### Plural Component Equipment
- **Acceptable**

### Brush
- **For stripe coating and repair only**
- **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.

## RECOMMENDED SYSTEMS

<table>
<thead>
<tr>
<th>Dry Film Thickness / ct.</th>
<th>Mils</th>
<th>(Microns)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Steel, Immersion (Potable Water)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Ct. Dura-Plate UHS</td>
<td>16.0-50.0</td>
<td>(400-1250)</td>
</tr>
<tr>
<td>or 2 Cts. Dura-Plate UHS</td>
<td>8.0-25.0</td>
<td>(200-625)</td>
</tr>
<tr>
<td>or 3 Cts. Dura-Plate UHS</td>
<td>6.0-16.0</td>
<td>(150-400)</td>
</tr>
<tr>
<td><strong>Steel, Immersion &amp; Atmospheric</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Cts. Dura-Plate UHS</td>
<td>6.0-7.0</td>
<td>(150-175)</td>
</tr>
<tr>
<td>or 1 Ct. Dura-Plate UHS</td>
<td>18.0-22.0</td>
<td>(450-550)</td>
</tr>
<tr>
<td>or 2 Cts. Dura-Plate UHS</td>
<td>10.0-12.0</td>
<td>(250-300)</td>
</tr>
<tr>
<td><strong>Steel, with Hold Primer</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Ct. Macropoxy 240</td>
<td>1.0-1.5</td>
<td>(25-37)</td>
</tr>
<tr>
<td>1 Ct. Dura-Plate UHS</td>
<td>18.0-22.0</td>
<td>(450-550)</td>
</tr>
</tbody>
</table>

NOTE: Dura-Plate UHS may be applied at alternate thicknesses, up to 50 mils (1250 microns), depending on application conditions. Consult your Sherwin-Williams representative for additional information.

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

## 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.

## DISCUSSION

**HEALTH AND SAFETY**

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.

**DISCLAIMER**

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