SHELCOTE® II is a high-solids, amine cured epoxy coating designed for resistance to a broad range of aqueous and petroleum-based chemicals including MTBE. It is recommended principally as an internal lining for storage tanks. It can be applied to steel or concrete surfaces. Also formulated for secondary containment use.

- Chemical Resistant
- Low temperature hardener available for applications from 35°F (16°C) minimum to 80°F (27°C) maximum

**Product Characteristics**

- **Finish:** Semi-Gloss
- **Color:** Off white
- **Volume Solids:** 57% ± 2%, mixed
- **Weight Solids:** 75% ± 2%, mixed
- **VOC (calculated):** <340 g/L; 2.80 lb/gal, mixed
- **Mix Ratio:** 4:1 by volume

**Recommended Spreading Rate per coat:**

<table>
<thead>
<tr>
<th>Wet mils (microns)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.0 (225)</td>
<td>11.0 (275)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dry mils (microns)</th>
<th>Coverage sq ft/gal (m²/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 (125)</td>
<td>6.0 (150)</td>
</tr>
</tbody>
</table>

Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft

912 (22.3)

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

**Drying Schedule @ 9.0 mils wet (225 microns):**

- **With 700C764**
  - **At 55°F/13°C @ 77°F/25°C @ 120°F/49°C 50% RH**
- **Dry mils (microns) 150 (3.7) 180 (4.4)**
- **Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft 912 (22.3)**

**To touch:** 7 hours 2 hours 15 minutes

**To recoat:**
- **Minimum:** 48 hours 16 hours 4 hours
- **Maximum:** 30 days 30 days 30 days

**Cure to service:**
- **14 days**
- **7 days**
- **3 days**

**Pot Life:** 8 hours 4 hours 2 hours

**Sweat-in-time:** 20 minutes 15 minutes 10 minutes

**Secondaries Containment**

- **Recommended for use:**
  - With cathodic protection systems
  - Heavy duty exterior structural coating
  - Acceptable for use with cathodic protection systems

**Performance Characteristics**

- **Resistance to Aqueous and Petroleum-Based Chemicals:**
  - **Alkalis:** Recommended
  - **Crude oil:** Recommended
  - **Diesel fuel:** Recommended
  - **Lubricating oils:** Recommended
  - **Fuel oils:** Recommended
  - **Aromatic solvents:** Recommended
  - **Hi-aromatic gasoline:** Recommended
  - **Ethanol gasohol:** Recommended
  - **MTBE, ETBE, TAME:** Recommended
  - **Ether/fuel blends (reformed gas):** Recommended
  - **Acids:** Recommended
  - **Methanol, ethanol, or blends:** Recommended
  - **Aviation Gasoline/Jet Fuel:** Recommended

**Secondary Containment**

- **Recommended for use:**
  - With cathodic protection systems
  - Heavy duty exterior structural coating

Epoxy coatings may darken or yellow following application and curing.

* Consult your Sherwin-Williams representative for specific application, temperature, concentration, and exposure recommendations.

**Not recommended when using Low Temperature Hardener**
**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: Immersion SSPC-SP10/NACE 2, 2 mil (50 micron) profile
- Concrete & Masonry: Immersion SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 2-3

**Surface Preparation Standards**

<table>
<thead>
<tr>
<th>Condition of Surface</th>
<th>ISO 8501-1</th>
<th>BS7079:A1</th>
<th>SIS055900</th>
<th>NACE</th>
<th>Swedish Std.</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Metal</td>
<td>Sa 3</td>
<td>Sa 3</td>
<td>Sa 2.5</td>
<td>SP 1</td>
<td>1</td>
</tr>
<tr>
<td>Near White Metal</td>
<td>Sa 2.5</td>
<td>Sa 2.5</td>
<td>SP 10</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Commercial Blast</td>
<td>Sa 2</td>
<td>Sa 2</td>
<td>SP 6</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Brush-Off Blast</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>SP 7</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Hand Tool Cleaning</td>
<td>Rusted</td>
<td>BL St 2</td>
<td>BL St 2</td>
<td>SP 2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Pitted &amp; Rusted</td>
<td>BL St 3</td>
<td>BL St 3</td>
<td>SP 3</td>
<td>-</td>
</tr>
<tr>
<td>Power Tool Cleaning</td>
<td>Rusted</td>
<td>BL St 3</td>
<td>BL St 3</td>
<td>SP 3</td>
<td>-</td>
</tr>
</tbody>
</table>

**Tinting**

Tinting is acceptable for use in guide coat or prime coat only. Use Maxitoner Colorants up to 1/4 oz per gallon maximum.

**Application Conditions**

Temperature: (air and surface)
- 700-C-764 Hardener: 55°F (13°C) minimum, 110°F (43°C) maximum
- 700-C-826 Hardener: 35°F (1.6°C) minimum, 80°F (27°C) maximum

Material must be mixed at 55°F (13°C) minimum at least 5°F (2.8°C) above dew point 85% maximum

Refer to product Application Bulletin for detailed application information.

**Ordering Information**

- **Part A**: 5 gallons (18.9L) mixed
- **Part B**: 4 gallons (15.1L) in a 5 gallon (18.9L) container
- **Part B**: 1 gallon (3.78L)

**Weight**: 13.53 ± .2 lb/gal; 1.62 Kg/L, 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.

**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.

**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.
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 mils / 50 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.

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.

Concrete and Masonry  
For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 2-3. 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.
### Application Procedures

Surface preparation must be completed as indicated.

**Mixing Instructions:** Mix contents of each component thoroughly, by using low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine 4 parts by volume of Part A with 1 part by volume of Part B. Thoroughly agitate the mixture with power agitation. Allow the material to sweat-in as indicated. Re-stir before using.

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

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<th>Recommended Spreading Rate per coat:</th>
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| Theoretical coverage sq ft/gal (m²/L) | 912 (22.3) |

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

### Drying Schedule (9.0 mils wet [225 microns])

**With 700C764:**
- **To touch:** 7 hours, 2 hours, 15 minutes
- **To recoat:**
  - Minimum: 48 hours, 16 hours, 4 hours
  - Maximum: 30 days, 30 days, 30 days
- **Cure to service:** 14 days, 7 days, 3 days
- **Pot Life:** 8 hours, 4 hours, 2 hours
- **Sweat-in-time:** 20 minutes, 15 minutes, 10 minutes

**With 700C826:**
- **To touch:** 12 hours, 4 hours, 2 hours
- **To recoat:**
  - Minimum: 24 hours, 18 hours, 12 hours
  - Maximum: 30 days, 30 days, 30 days
- **Cure to service:** 7 days, 7 days, 7 days
- **Pot Life:** 8 hours, 4 hours, 2 hours
- **Sweat-in-time:** 30 minutes, 15 minutes, None

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

### Clean Up Instructions

Clean spills and splatters immediately with Reducer 255-C-005. Clean tools immediately after use with Reducer 255-C-005. Follow manufacturer’s safety recommendations when using any solvent.

### 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, over thinning, climatic conditions, and excessive film build.

Reduction of material will 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 reducer 255-C-005.

Low temperature hardener recommended for applications below 55°F (13°C).

Low temperature hardener not recommended for use at application temperatures above 80°F (27°C)

Use of low temperature hardener may cause accelerated yellowing of the coating.

Do not use low temperature hardener for immersion service in methanol, ethanol, or blends.

Excessive film build, poor ventilation, and cool temperatures may cause solvent entrapment and premature coating failure.

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

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

### Safety Precautions

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