COROTHANE® I PREPRIME

**PRODUCT INFORMATION**

**Product Description**
COROTHANE® I PREPRIME is a clear, single component, moisture curing, urethane primer. It has excellent surface wetting properties and can be applied to sound, rusted surfaces with minimal surface preparation.
• Excellent adhesion to most substrates
• Low temperature application - down to 20°F (-7°C)
• Excellent durability
• Outstanding abrasion resistance
• Excellent corrosion and chemical resistance
• Outstanding application properties

**Product Characteristics**

| Finish: | Semi-Gloss |
| Color: | Clear / Amber Cast |
| Volume Solids: | 62% ± 2% |
| Weight Solids: | 68% ± 2% |
| VOC (calculated): | <340 g/L; 2.80 lb/gal |

**Recommended Uses**

- Heavy duty interior and exterior primer coating
- Universal primer for marginally prepared surfaces, old paint, tightly adherent rust, weathered galvanized steel, and concrete
- Suitable for use in USDA inspected facilities

**Performance Characteristics**

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Test Method</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abrasion Resistance</td>
<td>ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load</td>
<td>88 mg loss</td>
</tr>
<tr>
<td>Direct Impact Resistance</td>
<td>ASTM D2794</td>
<td>40 in. lbs.</td>
</tr>
<tr>
<td>Flexibility</td>
<td>ASTM D522, 180° bend, 1/8” mandrel</td>
<td>Passes</td>
</tr>
</tbody>
</table>

- Excellent surface wetting properties
- Can be applied over sound, tight, rusted surfaces
- Outstanding adhesion to steel and concrete
- Ideal for overcoating previous coatings

**Recommended Spreading Rate per coat:**

<table>
<thead>
<tr>
<th>Wet mils (microns)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry mils (microns)</td>
<td>2.5 (63)</td>
<td>3.0 (75)</td>
</tr>
<tr>
<td>~Coverage sq ft/gal (m²/L)</td>
<td>497 (12.2)</td>
<td>663 (16.2)</td>
</tr>
<tr>
<td>Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft</td>
<td>992 (24.3)</td>
<td></td>
</tr>
</tbody>
</table>

**Drying Schedule @ 3.0 mils wet (75 microns):**

- To touch: 3 hours @ 55°F/13°C, 1.5 hours @ 77°F/25°C, 20 minutes @ 100°F/38°C
- To recoat: minimum 8 hours, maximum 30 days
- To cure: 4 days

Abrade surface if maximum recoat time is exceeded.

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

**Shelf Life:**
12 months, unopened
Store indoors at 40°F (4.5°C) to 100°F (38°C).

**Flash Point:**
105°F (41°C), PMCC

**Reducer/Clean Up:**
Reducer #15, R7K15
**PRODUCT INFORMATION**

**Recommended Systems**

<table>
<thead>
<tr>
<th>Surface Preparation Standards</th>
<th>Dry Film Thickness / ct. Mils (Microns)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Steel:</strong></td>
<td></td>
</tr>
<tr>
<td>1 ct. Corothane I PrePrime</td>
<td>1.5-2.0 (40-50)</td>
</tr>
<tr>
<td>1 ct. Corothane I MIO-Aluminum</td>
<td>2.0-3.0 (50-75)</td>
</tr>
<tr>
<td>1 ct. Corothane I Aliphatic Finish Coat or Corothane I HS</td>
<td>2.0-3.0 (50-75)</td>
</tr>
<tr>
<td><strong>Steel:</strong></td>
<td></td>
</tr>
<tr>
<td>1 ct. Corothane I PrePrime</td>
<td>1.0-1.5 (25-40)</td>
</tr>
<tr>
<td>2 cts. Corothane I MIO-Aluminum</td>
<td>2.0-3.0 (50-75)</td>
</tr>
<tr>
<td><strong>Concrete, smooth:</strong></td>
<td></td>
</tr>
<tr>
<td>1 ct. Corothane I PrePrime</td>
<td>1.0-1.5 (25-40)</td>
</tr>
<tr>
<td>2 cts. Corothane I Aliphatic Finish Coat</td>
<td>2.0-3.0 (50-75)</td>
</tr>
</tbody>
</table>

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

**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: SSPC-SP2 or SP3
- Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3
- Previously Painted: SSPC-SP1

**Tinting**

Do not tint.

**Application Conditions**

Temperature:
- air and surface: 20°F (-7°C) minimum, 100°F (38°C) maximum
- material: 45°F (7°C) minimum

Do not apply over surface ice

Relative humidity: 30% minimum, 99% maximum

Refer to product Application Bulletin for detailed application information.

**Ordering Information**

Packaging: 1 gallon (3.78L) and 5 gallon (18.9L) containers

Weight: 8.7 ± 0.2 lb/gal ; 1.0 Kg/L

**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 MERCHANDABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

www.sherwin-williams.com/protective
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
Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6/NACE 3, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel within 8 hours or before flash rusting occurs.

Concrete and Masonry
For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3. 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.

Previously Painted Surfaces:
If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, or if this products attacks the previous finish, removal of the previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

Follow the standard methods listed below when applicable:
ASTM D4258 Standard Practice for Cleaning Concrete.
ASTM D4259 Standard Practice for Ablading 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.

Surface Preparation Standards

<table>
<thead>
<tr>
<th>Condition of Surface</th>
<th>ISO 8501-1</th>
<th>BS7579:1982</th>
<th>SIS055900</th>
<th>SSPC-SP6</th>
<th>NACE-SPC 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Metal</td>
<td>Sa 3</td>
<td>Sa 3</td>
<td>Sa 2.5</td>
<td>Sa 3</td>
<td>Sa 3</td>
</tr>
<tr>
<td>Near White Metal</td>
<td>Sa 2.5</td>
<td>Sa 2.5</td>
<td>Sa 3</td>
<td>Sa 2</td>
<td>Sa 2</td>
</tr>
<tr>
<td>Commercial Blast</td>
<td>Sa 2</td>
<td>Sa 2</td>
<td>Sa 2.5</td>
<td>Sa 3</td>
<td>Sa 3</td>
</tr>
<tr>
<td>Commercial Blast</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>Sa 1</td>
</tr>
<tr>
<td>Brush-of-Blast</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>Sa 1</td>
</tr>
<tr>
<td>Hand Tool Cleaning</td>
<td>Rusted</td>
<td>C St 2</td>
<td>C St 2</td>
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</tr>
<tr>
<td>Pitted &amp; Rusted</td>
<td>D St 2</td>
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<tr>
<td>Power Tool Cleaning</td>
<td>Rusted</td>
<td>C St 3</td>
<td>C St 3</td>
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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/Clean Up .......... Reducer #15, R7K15
Airless Spray .............. Not recommended

Conventional Spray
Unit.......................... Graco 900  Binks 95
Gun .................................. 070  66/65
Fluid Nozzle .................. 947  66PR
Air Nozzle ................... 60-70 psi 60-70 psi
Atomization Press .......... 15-20 psi 15-20 psi
Fluid Pressure ............... As needed up to 10% by volume

Brush
Brush .................................. Natural bristle
Reduction ...................... As needed up to 10% by volume

Roller
Cover ............................ 1/4" natural or synthetic with solvent resistant core
Reduction ...................... As needed up to 10% by volume

If specific application equipment is not listed above, equivalent equipment may be substituted.
Surface preparation must be completed as indicated.

Mix material thoroughly prior to use with a low speed power agitator. Filter slowly through a 55 mesh screen.

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

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

Drying Schedule @ 3.0 mils wet (75 microns):

- @ 55°F/13°C
- @ 77°F/25°C
- @ 100°F/38°C

| To touch: | 3 hours | 1.5 hours | 20 minutes |
| To recoat: | minimum: 8 hours | 3.5 hours | 1 hour |
| maximum: 30 days | 30 days | 15 days |
| To cure: | 4 days | 3 days | 1 day |

Abrade surface if maximum recoat time is exceeded.

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

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 #15, R7K15. Clean tools immediately after use with Reducer #15, R7K15. 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, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer #15, R7K15.

Pour a small amount of Reducer #15, R7K15 over the top of the paint in the can to prevent skinning or gelling.

Place a temporary cover over the pail to keep excessive moisture, condensation, fog, or rain from contaminating the coating.

Corothane KA Accelerator is acceptable for use. See data page 5.98 for details.

It is recommended that partially used cans not be sealed/closed for use at a later date.

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

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