STEEL SPEC™
UNIVERSAL PRIMER

STEEL SPEC UNIVERSAL PRIMER is a universal, heavy duty, weldable, rust inhibitive primer that combines many features of highly specialized primers into one product. It can be topcoated with epoxy, vinyl, chlorinated rubber, alkyd, acrylic, and urethane coatings as well as conventional oil and oleoresinous paints. This enables structural steel to be shop coated with this product and then top coated on the job with specialized coatings for chemical resistance needed in a specific area. Conforms to CISC/CPMA Standards 1-73a and 2-75.

PRODUCT INFORMATION

Recommended Uses

A non-lifting type primer which can be used as a barrier coat between previously painted surfaces and new coatings which contain strong solvents that will lift the old paint.

Steel Spec Universal Primer is not recommended for continuous immersion service. This primer does not contain lead or chromates.

According to AISC, shop coat primers are intended for protection for only a short period of exposure in ordinary atmospheric conditions, and is considered a temporary and provisional coating.

Not recommended for immersion service or exposure to acids or alkalis.

Acceptable for use in Canadian Food Processing facilities, categories: D1, D3 (Confirm acceptance of specific part numbers/rexes with your SW Sales Representative).

Complies with MPI #79

Provides performance comparable to products formulated to SSPC-Paint 15.

Performance Characteristics

Weld Test: Passed AWS D1.1

Substrate*: Steel
Surface Preparation*: SSPC-SP10
System Tested*: 1 ct. Steel Spec Universal Primer @ 2.0 mils dft
1 ct. Steel Spec FD Alkyd @ 5.0 mils dft
*unless otherwise noted below

Test Name Test Method Results
Adhesion1 ASTM D4541 570 psi
Corrosion Weathering2 ASTM D5894, 15 cycles Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D610 for rusting; Rating 9 per ASTM D1654 for corrosion
Direct Impact Resistance3 ASTM D2794 32 in. lbs
Salt Fog Resistance ASTM B117, 500 hours Rating 9 per ASTM D610 for rusting; Rating 8 per ASTM D1654 for corrosion

1 Primer @ 2.9 mils dft, Topcoat @ 4.6 mils dft
2 Topcoat @ 4.2 mils dft
3 Primer @ 2.4 mils dft, Topcoat @ 3.8 mils dft

Product Description

STEEL SPEC UNIVERSAL PRIMER

Color:
Volume Solids:
Weight Solids:
VOC:

Finish: Flat
Red, Gray, White, Black, and Dark Gray
63% ± 2%, may vary by color
81% ± 2%, may vary by color
<340 g/L; 2.8 lb/gal

Recommended Spreading Rate per coat:
Minimum Maximum
Wet mils: 3.0 6.0
Dry mils: 2.0 4.0
Coverage sq ft/gal: 252 505
Theoretical coverage sq ft/gal @ 1 mil dft 1010

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

Drying Schedule @ 4.0 mils wet @ 50% RH:

<table>
<thead>
<tr>
<th>Temperature</th>
<th>@ 40°F</th>
<th>@ 77°F</th>
<th>@ 120°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>To touch</td>
<td>40 minutes</td>
<td>15 minutes</td>
<td>10 minutes</td>
</tr>
<tr>
<td>Tack-Free</td>
<td>2.5 hours</td>
<td>1 hour</td>
<td>20 minutes</td>
</tr>
<tr>
<td>Dry-Hard</td>
<td>3.5 hours</td>
<td>1.5 hours</td>
<td>45 minutes</td>
</tr>
<tr>
<td>To handle</td>
<td>4.5 hours</td>
<td>2 hours</td>
<td>2 hours</td>
</tr>
<tr>
<td>To recoat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>alkyds</td>
<td>7.5 hours</td>
<td>2 hours</td>
<td>2 hours</td>
</tr>
<tr>
<td>urethane</td>
<td>24 hours</td>
<td>24 hours</td>
<td>6 hours</td>
</tr>
<tr>
<td>acrylic</td>
<td>48 hours</td>
<td>24 hours</td>
<td>6 hours</td>
</tr>
<tr>
<td>To cure</td>
<td>5 days</td>
<td>2 days</td>
<td>1 day</td>
</tr>
</tbody>
</table>

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

Shelf Life: 36 months, unopened
Store indoors at 40°F to 100°F.
Flash Point: 90°F, Red & White
103°F, Gray
Reducer/Clean Up: Xylene

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APPLICATION METHODS

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 Surface Preparation (Steel): SSPC SP2 Hand Tool Clean or SSPC-SP3 Power Tool Clean. In severely corrosive environment, SSPC-SP6, Commercial Blast Cleaning is required.

Surface Preparation Standards

<table>
<thead>
<tr>
<th>Condition of Surface</th>
<th>ISO 8501-1</th>
<th>Swedish Std.</th>
<th>SSPC</th>
<th>NACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Metal</td>
<td>Sa 2.5</td>
<td>Sa 3</td>
<td>SP 5</td>
<td>1</td>
</tr>
<tr>
<td>Near White Metal</td>
<td>Sa 2</td>
<td>Sa 2.5</td>
<td>SP 10</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>
</tr>
<tr>
<td>Brush-Off Blast</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>SP 7</td>
<td>4</td>
</tr>
<tr>
<td>Hand Tool Cleaning</td>
<td>Si 2</td>
<td>C St 2</td>
<td>SP 2</td>
<td>-</td>
</tr>
<tr>
<td>Pitted &amp; Rusted</td>
<td>D St 2</td>
<td>D St 2</td>
<td>SP 2</td>
<td>-</td>
</tr>
<tr>
<td>Power Tool Cleaning</td>
<td>C St 3</td>
<td>D St 3</td>
<td>SP 2</td>
<td>-</td>
</tr>
</tbody>
</table>

TINTING

Do not tint.

APPLICATION CONDITIONS

Temperature: 40°F minimum, 120°F maximum (air, surface, and material)
At least 5°F above the dew point

Relative Humidity: 85% maximum

ORDERING INFORMATION

Packaging: 5 gallon pails and 53 gallon drums

Weight per gallon: 13.55 ± 0.2 lb, may vary by color

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use.

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.