**Product Information**

### Product Description

**Hi-Solids Polyurethane** is a two-component, aliphatic, acrylic polyurethane resin coating. It is designed for high performance protection with outstanding exterior gloss and color retention.

- Good/excellent resistance to corrosion and weathering
- Outstanding color and gloss retention
- Chemical resistant
- Part of a system tested for nuclear irradiation and decontamination, Level II
- Resists film attack by mildew (MR White only)
- Outstanding application properties
- Applications down to 20°F (-7°C)

### Product Characteristics

**Finish:** High Gloss or Semi-Gloss

**Color:** Wide range of colors possible

**Volume Solids:** 65% ± 2%, mixed, may vary by color

**Weight Solids:** 77% ± 2%, mixed, may vary by color

**VOC (EPA Method 24):**
- Unreduced: <300g/L; 2.50 lb/gal, mixed
- Reduced 6%: <340 g/L; 2.84 lb/gal, mixed

### Recommended Uses

- For use over prepared substrates in industrial environments
- Heavy duty interior and exterior structural coating
- A chemical and abrasion resistant equipment and machinery finish
- A gloss and color retentive high duty maintenance coating for use in "high visibility" areas
- Exterior surfaces of steel tanks
- Chemical processing equipment
- Marine & offshore applications
- Power Plants
- Resists film attack by mildew (MR White only)
- Suitable for use in USDA inspected facilities
- Acceptable for use in Canadian Food Processing facilities categories: D1, D3 (Confirm acceptance of specific part numbers/recipes with your SW Sales Representative)
- Conforms to AWWA D102 OCS #5 & #6.
- Acceptable for use in high performance architectural applications
- Over FIRETEX hydrocarbon systems

### Performance Characteristics

- **Substrate**: Steel
- **Surface Preparation**: SSPC-SP6/NACE 3
- **System Tested**: 1 ct. Recoatable Epoxy Primer @ 4.0 mils (100 microns) dft
- **Test Name**
  - Abrasion Resistance
  - Adhesion
  - Corrosion
  - Weathering
  - Direct Impact Resistance
  - Dry Heat Resistance
  - Flexibility
  - Moisture Condensation Resistance
  - Pencil Hardness
  - Salt Fog Resistance
  - Surface Burning
  - Thermal Shock

### Test Method

<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>87.1 mg loss</td>
</tr>
<tr>
<td>Adhesion</td>
<td>ASTM D4541</td>
<td>1050 psi</td>
</tr>
<tr>
<td>Corrosion</td>
<td>ASTM D5894, 21 cycles, 7056 hours</td>
<td>Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D610 for rusting</td>
</tr>
<tr>
<td>Weathering</td>
<td>ASTM D5894, 21 cycles, 7056 hours</td>
<td>Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D610 for rusting</td>
</tr>
<tr>
<td>Direct Impact Resistance</td>
<td>ASTM D2794</td>
<td>32 in. lbs.</td>
</tr>
<tr>
<td>Dry Heat Resistance</td>
<td>ASTM D2485</td>
<td>200°F (93°C)</td>
</tr>
<tr>
<td>Flexibility</td>
<td>ASTM D522, 180° bend, 1/8&quot; mandrel</td>
<td>Passes</td>
</tr>
<tr>
<td>Moisture Condensation Resistance</td>
<td>ASTM D4585, 100°F (38°C), 1000 hours</td>
<td>No rusting, blistering, or delamination</td>
</tr>
<tr>
<td>Pencil Hardness</td>
<td>ASTM D3363</td>
<td>F</td>
</tr>
<tr>
<td>Salt Fog Resistance</td>
<td>ASTM B117, 9000 hours</td>
<td>Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D610 for rusting</td>
</tr>
<tr>
<td>Surface Burning</td>
<td>ASTM E84</td>
<td>Flame Spread Index 0; Smoke Development Index 0 (at 3.5 mils or 88 microns)</td>
</tr>
<tr>
<td>Thermal Shock</td>
<td>ASTM D2246, 15 cycles</td>
<td>Excellent</td>
</tr>
</tbody>
</table>

**Note:** Meets the requirements of SSPC Paint No. 36, Level 3 for white and light colors. Dark colors may require a clear coat.

### Footnotes:

1. Primer: Zinc Clad II Plus; Intermediate - Recoatable Epoxy Primer

---

**Product Information**

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**Footnotes:**

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HI-SOLIDS POLYURETHANE

PRODUCT INFORMATION

Revised: November 5, 2020

Recommended Systems

<table>
<thead>
<tr>
<th>Dry Film Thickness / ct.</th>
<th>Mils</th>
<th>Microns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel: Epoxy Primer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ct. Recatoable Epoxy Primer</td>
<td>4.0-6.0</td>
<td>(100-150)</td>
</tr>
<tr>
<td>1-2 cts. Hi-Solids Polyurethane</td>
<td>3.0-5.0</td>
<td>(75-125)</td>
</tr>
<tr>
<td>Steel: Epoxy Primer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ct. Dura-Plate 235</td>
<td>4.0-8.0</td>
<td>(100-200)</td>
</tr>
<tr>
<td>1-2 cts. Hi-Solids Polyurethane</td>
<td>3.0-5.0</td>
<td>(75-125)</td>
</tr>
<tr>
<td>Steel: Zinc Rich Primer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ct. Zinc Clad II Plus</td>
<td>2.0-4.0</td>
<td>(50-100)</td>
</tr>
<tr>
<td>1 ct. Macropoxy 646</td>
<td>5.0-10.0</td>
<td>(125-250)</td>
</tr>
<tr>
<td>1-2 cts. Hi-Solids Polyurethane</td>
<td>3.0-5.0</td>
<td>(75-125)</td>
</tr>
<tr>
<td>Steel: Epoxy Mastic Primer</td>
<td></td>
<td></td>
</tr>
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<td>5.0-10.0</td>
<td>(125-250)</td>
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<tr>
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<td>3.0-5.0</td>
<td>(75-125)</td>
</tr>
<tr>
<td>Steel: Universal Primer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ct. Kem Bond HS Metal</td>
<td>2.0-5.0</td>
<td>(50-125)</td>
</tr>
<tr>
<td>1-2 cts. Hi-Solids Polyurethane</td>
<td>3.0-5.0</td>
<td>(75-125)</td>
</tr>
<tr>
<td>Steel: Zinc Rich Primer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ct. Zinc Clad DOT</td>
<td>2.0-4.0</td>
<td>(50-100)</td>
</tr>
<tr>
<td>1 ct. Steel Spec Epoxy Intermediate</td>
<td>3.0-6.0</td>
<td>(75-150)</td>
</tr>
<tr>
<td>1 ct. Hi-Solids Polyurethane</td>
<td>3.0-5.0</td>
<td>(75-125)</td>
</tr>
<tr>
<td>Aluminum:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ct. DTM Wash Primer</td>
<td>0.7-1.3</td>
<td>(18-32)</td>
</tr>
<tr>
<td>1-2 cts. Hi-Solids Polyurethane</td>
<td>3.0-5.0</td>
<td>(75-125)</td>
</tr>
<tr>
<td>Concrete:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ct. Kem Cati-Coat Epoxy HS Filler/Sealer</td>
<td>10.0-15.0</td>
<td>(250-375)</td>
</tr>
<tr>
<td>1-2 cts. Hi-Solids Polyurethane</td>
<td>3.0-5.0</td>
<td>(75-125)</td>
</tr>
<tr>
<td>Galvanized Metal:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ct. Recatoable Epoxy Primer</td>
<td>4.0-6.0</td>
<td>(100-150)</td>
</tr>
<tr>
<td>1-2 cts. Hi-Solids Polyurethane</td>
<td>3.0-5.0</td>
<td>(75-125)</td>
</tr>
<tr>
<td>*Consult FIRETEX PFP Specialist for recommended dft range</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Disclaimer

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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: SSPC-SP6/NACE 3, 2 mil

* Aluminum: (50 micron) profile

* Galvanizing: SSPC-SP1

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

* Primer Required

Tinting

Tint with Maxitoner Colorants only into Part S. Extra White tints at 200% tint strength. Ultradeep tints at 150% tint strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

Application Conditions

Temperature: 20°F (-7°C) minimum

120°F (49°C) maximum

Do not apply over surface ice

At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

Ordering Information

Packaging:

Part S: 1 gallon (3.78L) and 4 gallon (15.1L) kits

Part T: 1/2 quart (0.94L) and gallons (3.78L)

Weight:

10.7 ± 0.2 lb/gal ; 1.28 Kg/L mixed, may vary with color

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 its 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, EXPRESSSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.
**Surface Preparations**

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**
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.

**Aluminum**
Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. Primer required.

**Galvanized Steel**
Allow to weather a minimum of six months prior to coating. Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP7 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned. Primer required.

**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. 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.

### Surface Preparation Standards

<table>
<thead>
<tr>
<th>Surface</th>
<th>ISO 8501-1</th>
<th>BS7079:81</th>
<th>SSPC NACE</th>
<th>Swedish Std.</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Metal</td>
<td>Sa 3</td>
<td>Sa 3</td>
<td>SP 6</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>
</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 1.7</td>
<td>Sa 1.7</td>
<td>SP 7</td>
<td>4</td>
</tr>
<tr>
<td>Hand Tool Cleaning</td>
<td>Rusted Sa 1.2</td>
<td>DSt 2</td>
<td>SP 2</td>
<td></td>
</tr>
<tr>
<td>Power Tool Cleaning</td>
<td>Rusted Sa 1.2</td>
<td>CS 3</td>
<td>SP 3</td>
<td></td>
</tr>
</tbody>
</table>

**Application Bulletin**

**Application Conditions**

<table>
<thead>
<tr>
<th>Temperature:</th>
<th>20°F (-7°C) minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120°F (49°C) maximum</td>
</tr>
<tr>
<td>(air, surface, and material)</td>
<td></td>
</tr>
<tr>
<td>At least 5°F (2.8°C) above dew point</td>
<td></td>
</tr>
</tbody>
</table>

Relative humidity: 85% maximum

**Application Equipment**

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**
Below 80°F (27°C) .......... Polane Reducer K69 or R7K111
Above 80°F (27°C) .......... Reducer #58 or R6K32

**Airless Spray**
Pressure .................. 2500 - 2800 psi
Hose ......................... 3/8" ID
Tip ......................... 0.13" - 0.17"
Filter ....................... none
Reduction .................. As needed up to 10% by volume with R7K111, or up to 6% by volume with Polane Reducer K69, Reducer #58, or R6K32 - reducing more than these levels may result in VOC exceeding 340 g/L

**Conventional Spray**
Gun ......................... Binks 95
Fluid Nozzle ............... 63 B
Atomization Pressure .......... 50 - 70 psi
Fluid Pressure ............. 20 - 25 psi
Reduction .................. As needed up to 15% by volume*

**Brush**
Brush ....................... Natural bristle
Reduction .................. As needed up to 15% by volume*

**Roller**
Cover ....................... 3/8" woven with solvent resistant core
Reduction .................. As needed up to 15% by volume*

*As needed up to 15% by volume with R7K111, or up to 6% by volume with Polane Reducer K69, Reducer #58, or R6K32 - reducing more than these levels may result in VOC exceeding 340 g/L.

If specific application equipment is not listed above, equivalent equipment may be substituted.

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continued on back
APPLICATION BULLETIN

HI-SOLIDS POLYURETHANE

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine 4 parts by volume of Part S with 1 part by volume of Part T. Thoroughly agitate the mixture with power agitation.

If reducer solvent is used, add only after both components have been thoroughly mixed.

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

**Recommended Spreading Rate per coat:**

<table>
<thead>
<tr>
<th>Wet mils (microns)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5 (112)</td>
<td>8.0 (200)</td>
<td></td>
</tr>
<tr>
<td>Dry mils (microns)</td>
<td>3.0 (75)</td>
<td>5.0 (125)</td>
</tr>
<tr>
<td>~Coverage sq ft/gal (m²/L)</td>
<td>208 (5.1)</td>
<td>347 (8.5)</td>
</tr>
<tr>
<td>Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft</td>
<td>1040 (25.5)</td>
<td></td>
</tr>
</tbody>
</table>

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

**Drying Schedule @ 4.5 mils (112.5 microns) wet:**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>To touch</th>
<th>To handle</th>
<th>To recoat</th>
<th>To cure</th>
</tr>
</thead>
<tbody>
<tr>
<td>20°F-7°C</td>
<td>16 hours</td>
<td>14 days</td>
<td>32 hours</td>
<td>40 days</td>
</tr>
<tr>
<td>40°F-4.5°C</td>
<td>4 hours</td>
<td>16 hours</td>
<td>24 hours</td>
<td>14 days</td>
</tr>
<tr>
<td>77°F-25°C</td>
<td>2 hours</td>
<td>8 hours</td>
<td>18 hours</td>
<td>30 days</td>
</tr>
<tr>
<td>120°F-49°C</td>
<td>1 hour</td>
<td>5 hours</td>
<td>10 hours</td>
<td>30 days</td>
</tr>
</tbody>
</table>

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

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

Pot Life: 3 days 8 hours 4 hours 2 hours

Sweat-in-Time: None required

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

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Reducer #58. Clean tools immediately after use with Reducer #58. Follow manufacturer's safety recommendations when using any solvent.

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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.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer #58.

Mixed coating is sensitive to water. Use water traps in all air lines. Moisture contact can reduce pot life and affect gloss and color.

Quick-Thane Urethane Accelerator is acceptable for use. See data page 5.97 for details.

E-Z Roll Urethane Defoamer is acceptable for use. See data page 5.99 for details.

R7K69 reducer is acceptable at temperature both above and below 80°F (28°C).

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

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 MERCHANTABLE AND FITNESS FOR A PARTICULAR PURPOSE.

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