PRODUCT INFORMATION

PRODUCT DESCRIPTION
TT-P-28 is a one component, modified silicone, heat resistant coating formulated to withstand normal weather exposure and temperatures up to 1200°F.

PRODUCT CHARACTERISTICS

<table>
<thead>
<tr>
<th>Finish:</th>
<th>Aluminum Sheen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Aluminum - #17178</td>
</tr>
<tr>
<td>Volume Solids:</td>
<td>36% +/- 2.0%</td>
</tr>
<tr>
<td>Weight Solids:</td>
<td>44% +/- 2.0%</td>
</tr>
<tr>
<td>VOC (Calculated):</td>
<td>&lt;2.05 lbs/gal (240 gms/liter)</td>
</tr>
</tbody>
</table>

Recommended Spreading Rate per coat:

<table>
<thead>
<tr>
<th>Wet mils</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry mils</td>
<td>0.7</td>
<td>1.0</td>
</tr>
</tbody>
</table>

~Coverage sq ft/gal 579

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

Drying Schedule @ 2.0 mils wet @ 50% RH:

- @ 77°F
  - To touch: 1 hour
  - To recoat: 24 hours
  - To service*: 3 hours

*Full hardness of the coating is not achieved until heated at least 1 hour at 400°F.

Service time refers to the number of hours the final coat should air dry before the unit is placed under heat service.

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

Shelf Life: 12 months, unopened

Store indoors at 40°F to 100°F.

Flash Point: 109°F

Reducer/Clean Up: Mineral Spirits

RECOMMENDED USES

Designed for use on superheated steam lines, boiler casings, boiler drums, superheated headers and similar high temperature applications at temperatures up to 1200°F.

PERFORMANCE CHARACTERISTICS

- Heat resistant to 1200°F

Color

| Aluminum - #17178 | N43S150 |

www.sherwin-williams.com/protective
**PRODUCT INFORMATION**

**RECOMMENDED SYSTEMS**

<table>
<thead>
<tr>
<th>Steel:</th>
<th>Dry Film Thickness / ct.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 cts. TT-P-28</td>
<td>0.7 - 1.0</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-SP5/NACE 1
- 1.5 mil profile maximum

**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 3</td>
<td>Sa 3</td>
<td>SP 5</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</td>
<td>Sa 1</td>
<td>SP 7</td>
<td>4</td>
</tr>
<tr>
<td>Hand Tool Cleaning</td>
<td>Rusted C St 2</td>
<td>C St 2</td>
<td>SP 2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Pitted &amp; Rust</td>
<td>C St 2</td>
<td>SP 2</td>
<td>-</td>
</tr>
<tr>
<td>Power Tool Cleaning</td>
<td>Rusted D St 3</td>
<td>D St 3</td>
<td>SP 3</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Pitted &amp; Rust</td>
<td>D St 3</td>
<td>SP 3</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 dew point
Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

**ORDERING INFORMATION**

Packaging: 1 and 5 gallon containers
Weight per gallon: 11.5 ± 0.2 lbs

**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.

**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.

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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.
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 (atmospheric service)
Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is White Metal Blast Cleaning per SSPC-SP5/NACE 1. Blast clean all surfaces using a sharp, angular, fine abrasive for optimum surface profile (1.5 mil maximum). Remove all weld spatter and round all sharp edges by grinding. Coat any bare steel the same day as it is cleaned or before flash rusting occurs.

### Surface Preparation Standards

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<td>3</td>
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<td>Sa 1</td>
<td>Sa 1</td>
<td>SP 7</td>
<td>4</td>
</tr>
<tr>
<td>Rusted</td>
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**Application Equipment**

**Reducer/Clean Up**
- Mineral Spirits

**Airless Spray**
- Pressure: 2000 - 2500 psi
- Hose: 1/4" ID
- Tip: 0.015"
- Reduction: As needed up to 5% maximum

**Conventional Spray**
- Gun: Binks 95
- Fluid Nozzle: 63C
- Air Nozzle: 63PB
- Atomization Pressure: 60 psi
- Fluid Pressure: 20 - 25 psi
- Reduction: As needed up to 5% maximum

**Brush**
- Brush: Natural Bristle
- Reduction: Not recommended

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

Surface preparation must be completed as indicated.
Lightly stir before use. Do not shake with mechanical shaker or overly agitate, as a dull, nonuniform, mottled appearance will result.
Special care should be exercised while using this product for maximum performance. Film thickness and surface preparation are critical. Be especially concerned at lap areas and when using airless spray. Excessive film thickness will cause blistering and peeling. Insufficient film thickness may lead to premature rusting of the surface. Always apply to cool surfaces (40°F-85°F).

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

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Service time refers to the number of hours the final coat should air dry before the unit is placed under heat service.

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.

PERFORMANCE TIPS

Stripe coat 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 Mineral Spirits.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Mineral Spirits. Clean tools immediately after use with Mineral Spirits. Follow manufacturer’s safety recommendations when using any solvent.

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