P99 Wash Primer

Product Description

P99 is a two pack chromated wash primer designed for the protection of aircraft exteriors.

- Ambient curing wash primer
- Designed to provide high resistance to filiform corrosion
- Excellent adhesion to polyurethane primers
- Excellent adhesion to a variety of light alloys and steel

Components

Mix Ratio (by volume)

- 7641/3600 (Base) 1 part
- 0841/9000 (Reactive Thinner) 1 part
- 0434/9000 (Thinner) to viscosity

Specifications

P99 is qualified to:

- AIMS 04-04-012
- AIMS 04-04-026
- AIMS 04-04-054
- AMS 3095
- MDL 5038

Product Compatibility

P99 is compatible with the following primer specifications:

- AIMS 04-04-001
- AIMS 04-04-002
- AIMS 04-04-038
- AIMS 04-04-012

Note: PPG Aerospace recommends you check the most recent specification QPLs for updated information.
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**Surface Preparation and Pretreatment**

P99 should **NOT** be applied over fresh (< 7 days) chromate conversion coatings. Ensure that the correct surface pre-treatment has been carried out. Ensure the surface is clean, dry and intact using a high performance solvent cleaner - Desoto® CN20 or Desoclean™ 45 solvent cleaners are recommended.

**Instructions for Use**

Hand stir or mechanically shake the base material until all the components are uniformly dispersed. Add reactive thinner to base material and mix thoroughly. Add thinner to the recommended viscosity (typically 0.1 to 0.3 volume)

*Note: All products and components should be placed in ambient conditions of 15 - 30°C (59 - 86°F) for at least 24 hours prior to mixing and application.*

**Induction Time:**

Not applicable

**Viscosity: (21 - 25°C/70 - 77°F)**

- AFNOR2.5: 40 - 45 seconds
- AFNOR4: 16 - 18 seconds
- BSB3: 26 - 32 seconds
- DIN4: 13 - 15 seconds
- FORD4: 15 - 17 seconds
- ISO3: 52 - 67 seconds
- ISO4: 15 - 25 seconds
- ZAHN2: 20 - 21 seconds

*Note: Viscosities quoted are typical ranges obtained when using specified mix ratio.*

**Pot Life:**

8 hours @ 21 - 25°C (70-77°F)
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**Application Guidelines**

**Recommended Application Conditions:**
- Temperature: 15 - 30°C (59 - 86°F)
- Relative Humidity: 30 - 75%

**Application:**
Apply 1 wet even coat to achieve a dry film thickness of 4 - 8 μm (0.16 - 0.32 mil)

**Theoretical Coverage:** (unthinned)
- 15 m²/Lt @ 6 μm dry film thickness
- 600 ft²/US gal @ 0.24 mil dry film thickness

**Recommended Dry Film Thickness:**
- 4 - 8 μm
- 0.16 - 0.32 mil

**Dry Film Density:**
- 1.63 g/cm³
- 13.6 lbs/US gal

**Dry Film Weight:**
- 10 g/m² @ 6 μm dry film thickness
- 0.002 lbs/ft² @ 0.24 mil dry film thickness

*Note: These application guidelines represent PPG’s best advice for usage in standard conditions. Some parameters will be influenced by environmental conditions, equipment settings, and other variables.*
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Equipment:
P99 is compatible with most types of current spray equipment but is NOT suitable for application with electrostatic spray equipment. Careful attention should be paid when using the Graco Pro range of spray guns to ensure the electrostatic is switched off.

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Tip Size</th>
<th>Fluid Rate</th>
<th>Air Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airmix Kremlin</td>
<td>Ø = 0.28 mm - Angle 60° Ref:06.134</td>
<td>320 to 360 ml/min</td>
<td>725 to 870 psi (50 to 60 bar)</td>
</tr>
<tr>
<td>HVLP</td>
<td>1.2 mm</td>
<td></td>
<td>22 to 29 psi (1.5 to 2 bar)</td>
</tr>
<tr>
<td>Conventional</td>
<td>1.5 mm</td>
<td></td>
<td>43 to 58 psi (3 to 4 bar)</td>
</tr>
<tr>
<td>Airless, Air-assisted</td>
<td></td>
<td></td>
<td>58 to 73 psi (4 to 5 bar)</td>
</tr>
<tr>
<td>PRO3500 or PROXS4</td>
<td>1.2 or 1.5 mm</td>
<td>approx. 360 to 400 ml/min</td>
<td>72 to 87 psi (5 to 6 bar)</td>
</tr>
</tbody>
</table>

Equipment Cleaning:
Clean spray equipment before use and as soon as possible after use. DeSoto® CN20, CN44 or Desoclean™ 45 solvent cleaner are recommended.

Physical Properties

Colour:
Yellow

Gloss:
Not applicable

<table>
<thead>
<tr>
<th>DRYING TIMES</th>
<th>23°C(73°F) @ 50% RH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust Free</td>
<td>20 minutes</td>
</tr>
<tr>
<td>Dry to Tape</td>
<td>90 minutes</td>
</tr>
<tr>
<td>Dry to Sand</td>
<td>90 minutes</td>
</tr>
<tr>
<td>Dry to Overcoat</td>
<td>1 to 24 hours</td>
</tr>
<tr>
<td>Full Cure</td>
<td>7 days</td>
</tr>
</tbody>
</table>

Force Dry:
Not applicable

Note: Drying times listed above are dependent upon film thickness applied, air flow conditions and application technique.
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VOC: (ASTM)

<table>
<thead>
<tr>
<th>Component</th>
<th>VOC (g/Lt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixed ready for use (unthinned)</td>
<td>755</td>
</tr>
<tr>
<td>7641/3600 Base Component</td>
<td>690</td>
</tr>
<tr>
<td>0841/9000 Reactive Thinner</td>
<td>820</td>
</tr>
<tr>
<td>0434/9000 Thinner</td>
<td>880</td>
</tr>
</tbody>
</table>

Flash Point:

<table>
<thead>
<tr>
<th>Component</th>
<th>Flash Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>7641/3600 Base Component</td>
<td>13°C (54°F)</td>
</tr>
<tr>
<td>0841/9000 Reactive Thinner</td>
<td>13°C (54°F)</td>
</tr>
<tr>
<td>0434/9000 Thinner</td>
<td>18°C (64°F)</td>
</tr>
</tbody>
</table>

Shelf Life:

<table>
<thead>
<tr>
<th>Component</th>
<th>Shelf Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>7641/3600 Base Component</td>
<td>24 months in original unopened container</td>
</tr>
<tr>
<td>0841/9000 Reactive Thinner</td>
<td>24 months in original unopened container</td>
</tr>
<tr>
<td>0434/9000 Thinner</td>
<td>10 years in original unopened container</td>
</tr>
</tbody>
</table>

Note: Shelf life may vary due to OEM specification requirements. Refer to container label for specific shelf life information.

Note: The application and performance property values above are typical for the material, but not intended for use in specifications or for acceptance inspection criteria because of variations in testing methods, conditions and configurations.

Storage Recommendations

Inspect the condition of the container to ensure compliance. The material should be stored at temperatures between 5°C to 35°C (41°F to 95°F) to ensure shelf life.

Note: When procuring to a qualified material specification, follow those storage instructions.
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Health Precautions

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Safety Data Sheet (SDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An SDS is available on request. Avoid overexposure. Obtain medical care in case of extreme overexposure.

For industrial use only. Keep away from children.

Additional information can be found at: www.ppgaerospace.com

For sales and ordering information call the local PPG office at the numbers listed below:

**Asia Pacific**

**ASC – Australia**  
Tel 61 (3) 9335 1557  
Fax 61 (3) 9335 3490

**ASC – Japan**  
Tel 81 561 35 5200  
Fax 81 561 35 5201

**ASC – South East Asia**  
Tel 65 6861 1119  
Fax 65 6861 6162

**ASC – Suzhou**  
Tel (86-512) 6661 5858  
Fax (86-512) 6661 6868

**ASC – Tianjin**  
Tel (86-022) 2482 8625  
Fax (86-022) 2482 8600

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Fax 49 (40) 742 139 69

**ASC – Middle East & India**  
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Fax (971) 4 883 9665

**ASC – North Europe**  
Tel 44 (0) 1388 770222  
Fax 44 (0) 1388 770288

**ASC – South Europe**  
Tel 33 (0) 235 53 43 71  
Fax 33 (0) 235 53 54 44

**Americas**  
1 (818) 362-6711 or 1-800-AEROMIX

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