5440 PU66 8H PU Topcoat Gloss

**Product Description**

5440 is a two component polyurethane topcoat of the PU66 range, designed for the internal / external protection and decoration of aircraft structures.

- Conventional solids
- Excellent fluid resistance including Skydrol, hydraulic fluids
- Outstanding UV and long term durability

**Components**

**Mix Ratio (by volume)**

<table>
<thead>
<tr>
<th>Component Ref.</th>
<th>Spray Application</th>
<th>Brush Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>5440/…. (Base)</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>07309000 (Activator)</td>
<td>1</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>07079000 (Activator)</td>
<td>Not Applicable</td>
<td>2</td>
</tr>
<tr>
<td>04919000 (Thinner)</td>
<td>To Viscosity</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

**Specifications**

5440 is qualified to:

- AIMS 04-04-003
- AIMS 04-04-012
- ASNA 3626
- ASNA 4247
- BLGG 140301
- HMDC0055
- HMRC0060
- MDL 5041

5440 meets the performance requirements of:

- Mil-PRF-85285

**Product Compatibility**

5440 is compatible with the following primer specifications:

- AIMS 04-04-002
- AIMS 04-04-003
- AIMS 04-04-011
- ASNA 4251
- BLGG 0900101
- AIMS 04-04-012

5440/….
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Note: PPG Aerospace recommends you check the most recent specification QPLs for updated information.

**Surface Preparation and Pretreatment**

Ensure surface is clean, dry and intact using a high performance solvent cleaner - DeSoto® CN20 or Desoclean™ 45 solvent cleaners are recommended. Observe recommended over coating windows for primers. For further information refer to the technical data sheet for the relevant primers.

**Instructions for Use**

Base component may require mechanical agitation. Ensure all components are adequately dispersed. Before adding the activator to the base, thoroughly stir or shake the base component until a smooth uniform mix is obtained. Slowly add activator to base while stirring, then add required thinner (spray application only) while stirring.

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 required

**Viscosity:** (21 - 25°C / 70 - 77°F)

- AFNOR 2.5 45 - 55 seconds
- AFNOR4 14 - 16 seconds
- BSB3 23 - 30 seconds
- BSB4 18 - 20 seconds
- FORD4 13 - 15 seconds
- ISO3 30 - 50 seconds
- ISO4 17 - 22 seconds
- ZAHN2 15 - 20 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 - 35°C (59 - 95°F)
Relative Humidity 30 - 85%

Application:
Apply 2 cross coats to achieve the recommended dry film thickness.

Theoretical Coverage: (unthinned)
6 - 8 m²/Lt @ 40 µm dry film thickness
240 - 320 ft²/US gal @ 1.6 mil dry film thickness

Recommended Dry Film Thickness:
30 - 50 µm
1.2 - 2 mil

Dry Film Density:
1.2 - 1.6 g/cm³ (depending on colour)
10.2 - 13.3 lbs/US gal

Dry Film Weight:
47 - 64 g/m² @ 40 µm dry film thickness
0.009 - 0.013 lbs/ft² @ 1.6 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.

Equipment:

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>Tip Size (mm)</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVLP Air Spray</td>
<td>1.2</td>
<td>22 to 29 psi</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1.5 to 2 bar)</td>
</tr>
<tr>
<td>Pressure Pot</td>
<td>1.5</td>
<td>43 to 72 psi</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(3 to 5 bar)</td>
</tr>
</tbody>
</table>

5440 can also be applied by brush (refer mix ration table).

Equipment Cleaning:
Clean application equipment before use and as soon as possible after use. DeSoto® CN20 or Desoclean™ 45 solvent cleaners are recommended.
Physical Properties

Colour:
This product is available in a wide range of colours. Please contact PPG Aerospace to discuss specific requirements.

Gloss:
>90 units with a 60° gloss meter

<table>
<thead>
<tr>
<th>DRYING TIMES @ 50 % R.H</th>
<th>23°C (73°F)</th>
<th>60°C (140°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust Free</td>
<td>2 hours</td>
<td></td>
</tr>
<tr>
<td>Dry to Handle</td>
<td>5 hours</td>
<td></td>
</tr>
<tr>
<td>Dry to Tape</td>
<td>8 hours</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Dry to Sand</td>
<td>8 hours</td>
<td></td>
</tr>
<tr>
<td>Dry to Overcoat</td>
<td>1 hour (min.)</td>
<td>15 minutes</td>
</tr>
<tr>
<td></td>
<td>72 hours (max.)</td>
<td></td>
</tr>
<tr>
<td>Full Cure</td>
<td>7 to 9 days</td>
<td></td>
</tr>
</tbody>
</table>

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

Flash Off Time:
15 - 30 minutes prior to force dry.

VOC: (ASTM)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixed ready for use (unthinned)</td>
<td>&lt;600 g/Lt</td>
</tr>
<tr>
<td>5440 Base Component</td>
<td>&lt;500 g/Lt</td>
</tr>
<tr>
<td>0730/9000 Activator</td>
<td>705 g/Lt</td>
</tr>
<tr>
<td>0707/9000 Brush Activator</td>
<td>460 g/Lt</td>
</tr>
<tr>
<td>0491/9000 Thinner</td>
<td>840 g/Lt</td>
</tr>
</tbody>
</table>

Flash Point:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5440 Base Component</td>
<td>26°C (79°F)</td>
</tr>
<tr>
<td>0730/9000 Activator</td>
<td>13°C (55°F)</td>
</tr>
<tr>
<td>0707/9000 Brush Activator</td>
<td>50°C (122°F)</td>
</tr>
<tr>
<td>0491/9000 Thinner</td>
<td>-2°C (28°F)</td>
</tr>
</tbody>
</table>
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Shelf Life:

<table>
<thead>
<tr>
<th>Component</th>
<th>Shelf Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>5440 Base Component</td>
<td>24 months in original unopened container</td>
</tr>
<tr>
<td>0730/9000 Activator</td>
<td>24 months in original unopened container</td>
</tr>
<tr>
<td>0707/9000 Brush Activator</td>
<td>24 months in original unopened container</td>
</tr>
<tr>
<td>0491/9000 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.
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
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  Fax 81 561 35 5201
- **ASC – South East Asia**
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  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 44 (0) 1388 770288
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  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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