

## 5441 PU66 4H PU Topcoat Gloss

### Product Description

5441 is a two-component polyurethane topcoat of the PU66 range. Designed to be applied as a decorative colour or touch-up for aircraft exteriors over recently applied PU66 topcoats. 5441 can also be applied over epoxy/polyurethane primers.

- Conventional solids
- Flexible polyurethane topcoat
- Chemical & environmental resistance
- Excellent resistance to skydrol, hydraulic fluids
- Excellent resistance to filiform corrosion and salt spray
- Outstanding UV resistance and long-term durability

### Components



#### Mix Ratio (by volume)

- |                         |              |
|-------------------------|--------------|
| • 5441 (Base)           | 1 part       |
| • 0730/9000 (Activator) | 1 part       |
| • 0491/9000 (Thinner)   | to viscosity |

### Specifications



5441 is qualified to:

- BLGG140301
- MDL5041

#### Product Compatibility

5441 is compatible with primers to the following specifications:

- |                  |                 |
|------------------|-----------------|
| • AIMS 04-04-002 | • ASNA 4251     |
| • AIMS 04-04-003 | • BLGG 0900101  |
| • AIMS 04-04-011 | • TN-A-007-0012 |
| • AIMS 04-04-012 |                 |

*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 while stirring.

*Note: All products and components should be placed in ambient conditions of 15-35°C (59-95°F) for at least 24 hours prior to mixing and application.*



### **Induction Time:**

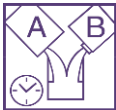
Not required



### **Viscosity:** ( 23°C/73°F)

• AFNOR 2.5	45 - 55 seconds
• AFNOR4	14 - 16 seconds
• BSB3	23 - 30 seconds
• BSB4	15 - 17 seconds
• FORD4	12 - 15 seconds
• ISO3	37 - 50 seconds
• ISO4	17 - 21 seconds
• ZAHN2	15 - 20 seconds

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



### **Pot Life:**

4 hours @ 21 - 25°C (70 - 77°F)

## Application Guidelines

### **Recommended Application Conditions:**

Temperature	15 - 35°C (59 - 95°F)
Relative Humidity	30 - 85%

### **Application:**

Apply 1 light single coat followed by 2 cross coats to reach the recommended dry film thickness.

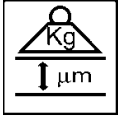


### **Theoretical Coverage:** (ready for use unthinned)

6 - 8 m<sup>2</sup>/Lt @ 40 µm dry film thickness  
240 - 320 ft<sup>2</sup>/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/cm<sup>3</sup> (depending on colour)  
 10.2 - 13.3 lbs/US gal

**Dry Film Weight:**

47 - 64 g/m<sup>2</sup> @ 40 μm dry film thickness  
 0.009 - 0.013 lbs/ft<sup>2</sup> @ 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:**

Equipment Type	Tip Size (mm)	Pressure
HVLP Air Spray	1.2	22 to 29 psi (1.5 to 2 bar)
Pressure Pot	1.5	43 to 72 psi (3 to 5 bar)

**Equipment Cleaning:**

Clean spray 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.

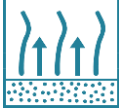
**Gloss:**

>=90 units with a 60° gloss meter



Drying Times 50% Relative Humidity	23°C (73°F)	60°C (140°F)
Dry to Touch	30 minutes	
Dry to Handle	45 minutes	
Dry to Overcoat	1 hour (min.) 72 hours (max.)	15 minutes
Dry to Tape	4 hours	
Full Cure	7 days	90 minutes

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

**Flash Off Time:**

15-30 minutes at room temperature, prior to force dry.

**VOC: (ASTM)**

Mixed ready for use(unthinned)	>600 g/Lt
5441 Base Component	<490 g/Lt
0730/9000 Activator	705 g/Lt
0491/9000 Thinner	840 g/Lt

**Flash Point:**

5441 Base Component	<26°C (79°F)
0730/9000 Activator	13°C (55°F)
0491/9000 Thinner	-2°C (28°F)

**Shelf Life:**

5441 Base Component	24 months in original unopened container
0730/9000 Activator	24 months in original unopened container
0491/9000 Thinner	10 years in original unopened container

*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](http://www.ppgaerospace.com)**

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### **Americas**

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

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