

## 5542/9000 Flame Retardant UV Resistant Varnish Semi Gloss

### Product Description

5542/9000 is a two component, transparent, semi-gloss acrylic urethane varnish designed to provide UV protection to external aircraft structures when applied over existing topcoats and markings.

- Excellent UV resistance
- Increased flame resistance
- Suitable for use on interior wooden components

### Components



#### **Mix Ratio (by volume)**

- |                         |              |
|-------------------------|--------------|
| • 5542/9000 (Base)      | 1 parts      |
| • 0730/9000 (Activator) | 1 part       |
| • 0477/9000 (Thinner)   | to viscosity |

### Specifications



5542/9000 is qualified to:

- Dassault

5542/9000 meets the performance requirements of:  
AIMS 04-04-023

#### **Product Compatibility**

5542/9000 is compatible with the following specification:

- 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 are recommended. Observe recommended overcoating windows for topcoats.

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## Instructions for Use



Stir or shake the base component to ensure components are uniformly dispersed. Add activator to base component slowly and stir thoroughly, add thinner if required, 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:**

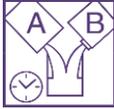
Not required



### **Viscosity:** (15-24°C/59-75°F)

• AFNOR2.5	48 - 60 seconds
• AFNOR4	15 - 17 seconds
• BSB3	27 - 32 seconds
• BSB4	15 - 18 seconds
• FORD4	13 - 16 seconds
• ISO3	42 - 57 seconds
• ISO4	19 - 26 seconds
• ZAHN2	16 - 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 - 80%

### **Application:**

Apply fine cross coats to achieve the recommended 30 - 40 µm dry film thickness.



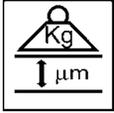
### **Theoretical Coverage:** (unthinned)

10 m<sup>2</sup>/Lt @ 35 µm dry film thickness  
400 ft<sup>2</sup>/US gal @ 1.4 mil dry film thickness

### **Recommended Dry Film Thickness:** (subject to customer requirements)

30 - 40 µm  
1.2 - 1.6 mil

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**Dry Film Density:**

1.18 g/cm<sup>3</sup>  
9.87 lbs/US gal

**Dry Film Weight:** (unthinned)

41 g/m<sup>2</sup> @ 35 μm dry film thickness  
0.008 lbs/ft<sup>2</sup> @ 1.4 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	Pressure
Conventional Air Spray	1.0 to 1.5 mm	44 to 58 psi (3 to 4 bar)



5442/9000 can also be applied by brush or roller.

**Equipment Cleaning:**

DeSoto® CN20, CN44 or Desoclean™ 45 solvent cleaners are recommended.  
NOTE: This coating is no longer soluble in solvents after it has cured. For this reason clean equipment as soon as possible after the coating has been applied, and always before the material has cured. Agitation with a cloth or brush will help remove stubborn deposits.

## Physical Properties



**Colour:**  
Colourless



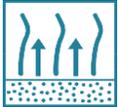
**Gloss:**  
45-65 units with a 60° gloss meter

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Drying Times @ 23°C (73°F) 50% Relative Humidity	
Dust Free	2 hours
Dry to Tape	10 to 12 hours
Full Cure	7 days

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



## Flash Off Time:

Subject to customer application requirements



## VOC: (ASTM)

Mixed ready for use (unthinned)	600 g/Lt
5542/9000 Base Component	500 g/Lt
0730/9000 Activator	705 g/Lt
0477/9000 Thinner	920 g/Lt



## Flash Point:

5541/9000 Base Component	30.5°C (87°F)
0730/9000 Activator	13°C (55°F)
0477/9000 Thinner	33.5°C (92°F)

## Shelf Life:

- 5542/9000 Base Component 24 months in original unopened container
- 0730/9000 Activator 24 months in original unopened container
- 0477/9000 Thinners 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.*

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

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

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Tel 33 (0) 235 53 43 71  
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### **Americas**

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

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