

5541/9000 UV Resistant Varnish Semi Gloss

Product Description

5541/9000 is a two component UV resistant acrylic-urethane semi-gloss coating designed for use as a protective varnish for aircraft components.

- Protective varnish for external aircraft structures and markings
- Excellent durability and UV resistance
- Good chemical resistance including aircraft hydraulic fluids
- Easy to clean

Components



Mix Ratio (by volume)

- | | |
|-------------------------|---------------------|
| • 5541/9000 (Base) | 2.5 parts |
| • 0701/9000 (Activator) | 1 part |
| • 0477/9000 (Thinner) | 1.5 parts (approx.) |

Specifications



5541/9000 is qualified to:

- PPG Standard

5541/9000 meets the requirements of:

- AIMS 04-04-023

Product Compatibility

5541/9000 is compatible with the following primer / topcoat specifications:

- | | |
|------------------|---------------|
| • AIMS 04-04-012 | • BLGG 140301 |
| • AIMS 04-04-013 | • BS2X34B |
| • AIMS 04-04-031 | • MMSRR1006 |
| • AIMS 04-04-032 | |

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

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Surface Preparation and Pretreatment



Ensure surface is clean, dry and intact using a high performance solvent cleaner. DeSoto® CN20 or Desoclean™ 45 solvent cleaner are recommended. Observe recommended overcoating windows.

Instructions for Use



Base may require mechanical agitation. Thoroughly stir or shake the base to ensure components are adequately dispersed. Add activator to base while stirring, then adjust to viscosity with thinner.

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:

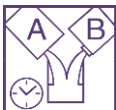
Not required



Viscosity: (21-25°C / 70-77°F)

• AFNOR2.5	45 - 55 seconds
• AFNOR4	15 - 17 seconds
• BSB3	29 - 33 seconds
• BSB4	16 - 19 seconds
• FORD4	14 - 16 seconds
• ISO3	46 - 60 seconds
• ISO4	21 - 28 seconds
• ZAHN2	18 - 21 seconds

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



Pot Life:

4 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 - 80%

Application:

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

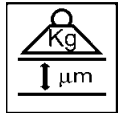


Theoretical Coverage: (unthinned)

14 m²/Lt @ 35 µm dry film thickness
560 ft²/US gal @ 1.4 mil dry film thickness

Recommended Dry Film Thickness:

30 - 40 µm
1.2 - 1.6 (mil)



Dry Film Density:

1.16 g/cm³
9.70 lbs/US gal

Dry Film Weight:

41 g/m² @ 35 µm dry film thickness
0.008 lbs/ft² @ 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 (mm)	Pressure
Conventional Air Spray	1.0 to 1.5	43 to 58 psi (3 to 4 bar)



Equipment Cleaning:

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

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Physical Properties



Colour:
Colourless

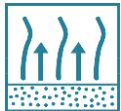


Gloss:
45-65 units with a 60° gloss meter



Drying Times @ 23°C (73°F) 50% Relative Humidity	
Dust Free	2 hours
Dry to Tape	10 to 12 hours
Dry to Overcoat	2 to 48 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:
Not Applicable



VOC: (ASTM)

Mixed ready for use	590 g/Lt
5541/9000 Base Component	520 g/Lt
0701/9000 Activator	270 g/Lt
0477/9000 Thinner	920 g/Lt



Flash Point:

5541/9000 Base Component	28°C (82°F)
0701/9000 Activator	42°C (108°F)
0477/9000 Thinner	33.5°C (92°F)

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Shelf Life:

5541/9000 Base Component	24 months in original unopened container
0701/9000 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

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

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