

5543/9000 Flame Retardant UV Resistant Varnish High Gloss

Product Description

5543/9000 is a two component, transparent, glossy 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)

- | | |
|-------------------------|--------------|
| • 5543/9000 (Base) | 1 parts |
| • 0730/9000 (Activator) | 1 part |
| • 0477/9000 (Thinner) | to viscosity |

Specifications



5543/9000 is qualified to:

- Dassault

5543/9000 meets the performance requirements of:

- AIMS 04-04-023

Product Compatibility

5543/9000 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 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:

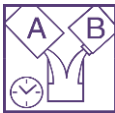
Not required



Viscosity: (15-24°C/59-75°F)

• AFNOR2.5	51 - 62 seconds
• AFNOR4	15 - 18 seconds
• BSB3	28 - 33 seconds
• BSB4	16 - 19 seconds
• FORD4	13 - 16 seconds
• ISO3	46 - 60 seconds
• ISO4	21 - 27 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)

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.



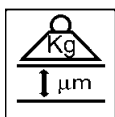
Theoretical Coverage: (unthinned)

10 m²/Lt @ 35 µm dry film thickness
400 ft²/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:

1.11 g/cm³
9.33 lbs/US gal

Dry Film Weight: (unthinned)

39 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	Pressure
Conventional Air Spray	1.0 or 1.5mm	44 to 58 psi (3 to 4 bar)



5443/9000 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



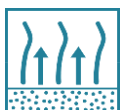
Gloss:
> 90 units with a 60° gloss meter

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Drying Times @ 23°C (73°F) 50% Relative Humidity	
Dry to Touch	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)	570 g/Lt
5543/9000 Base Component	435 g/Lt
0730/9000 Activator	705 g/Lt
0477/9000 Thinner	920 g/Lt



Flash Point:

5543/9000 Base Component	31°C (88°F)
0730/9000 Activator	13°C (55°F)
0477/9000 Thinner	33.5°C (92°F)

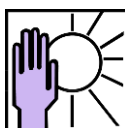
Shelf Life:

5543/9000 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

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

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ASC – Australia
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