

CV121 Polyurethane Finishing Gloss

Product Description

CV121 is a two part polyurethane based blue-tinted varnish designed for use on external surfaces of fuel tanks to prevent vapour fuel leakages and accumulation of fuel vapour in fuselage covered areas surrounding fuel tanks.

- Excellent flexibility
- Applicable on aluminium & carbon fibre composite
- Excellent resistance to water & hydraulic fluids

Components



Mix Ratio (by volume)

- | | |
|---------------------|--------------|
| • CV121 (Base) | 2 parts |
| • ACT34 (Activator) | 1 part |
| • T74 (Thinner) | to viscosity |

Specifications



CV121 is qualified to:

- PPG Standard

CV121 is compatible with the following primer specifications:

- AIMS 04-04-001
- AIMS 04-04-002

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 overcoating windows.

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Instructions for Use



Stir or shake the base component to ensure complete dispersion. Add activator to base component and stir thoroughly. Add thinner to viscosity for spray application, no thinner is required for brush application.

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.



Viscosity: (23°C/73°F)

• AFNOR2.5	45 - 56 seconds
• AFNOR4	15 - 16 seconds
• BSB3	26 - 30 seconds
• BSB4	15 - 17 seconds
• FORD4	12 - 15 seconds
• ISO3	37 - 50 seconds
• ISO4	18 - 22 seconds
• ZAHN2	16 - 20 seconds

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



Pot Life:

8 hours @ 21 - 25°C (70 - 77°F)

Application Guidelines

Recommended Application Conditions:

Temperature	15 - 30°C (59 - 86°F)
Relative Humidity	30 - 75%

Application:

Apply 1 double track coat to achieve recommended dry film thickness.



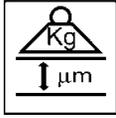
Theoretical Coverage: (ready for use)

11 - 15 m²/Lt @ 20 µm dry film thickness
440 - 600 ft²/US gal @ 0.8 mil dry film thickness

Recommended Dry Film Thickness:

18 - 28 µm
0.7 - 1.1(mil)

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Dry Film Density: (unthinned)

1.08 g/cm³
9.09 lbs/US gal

Dry Film Weight:

22 g/m² @ 20 μm dry film thickness
0.004 lbs/ft² @ 0.8 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:

CV121 is compatible with all current types of spray equipment or can be brush applied.



Equipment Type	Tip Size	Pressure
Airmix	9 to 11 thou	Refer to manufacturer
HVLP Air Spray	1.3 to 1.8 mm	29 to 43 psi (2 to 3 bar)
Pressure Pot	1.0 to 1.2 mm	29 to 43 psi (2 to 3 bar)
Airless	9 to 11 thou	Refer to manufacturer
Air-assisted Airless Electrostatic	9 to 11 thou	Refer to manufacturer
Low Pressure Electrostatic	1.0 to 1.2 mm	87 psi (6 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:

Transparent blue



Gloss:

Full gloss

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DRYING TIMES @ 23°C (73°F) 50% RH	
Dry to Handle	6 hours
Dry to Mask	6 hours
Dry to Recoat	2 - 72 hours
Dry to Flat	6 hours
Fully Cure	7 days

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



Flash Off Time:

Not required



VOC: (ASTM)

Mixed (unthinned)	455g/Lt
CV121 Base Component	550g/Lt
ACT34 Activator	270g/Lt
T74 Thinner	800g/Lt



Flash Point:

CV121 Base Component	13°C (19°F)
ACT34 Activator	25°C (68°F)
T74 Thinner	-7°C (19°F)

Shelf Life:

CV121 Base Component	24 months in original unopened container
ACT34 Activator	24 months in original unopened container
T74 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 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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This document has been reviewed by the PPG Aerospace Export Control Department and has been determined to contain only EAR99 controlled data

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