

CV124 HS Polyurethane Varnish Matt

TECHNICAL DATA SHEET

Product Description

CV124 is a matt, polyurethane hybrid varnish, based on the polymer technology of Desothane® CA8300 HS polyurethane series. CV124 is designed for use as a protective varnish for application over polyurethane paint systems on the exterior of aircraft, as an edge sealer for decals, as a protective varnish over primed surfaces on the structural interior of airframes, and as a varnish to protect part markings applied to coated components.

- Quick drying
- Low VOC
- Exceptional durability & UV light resistance
- Excellent resistance to aircraft fluids including Skydrol

Components



Mix Ratio (by volume)

- | | |
|-----------------------|---------|
| • CV124 (Base) | 3 parts |
| • CA8300B (Activator) | 1 part |

Specifications



CV124 is qualified to:

- BS2X34 Types A & B

Product Compatibility

CV124 is compatible with the following primer topcoat specification:

- BS2X33B

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- BS2X34B

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 for primers.

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Instructions for Use



Ensure all mixing and measuring containers to be used are clean, dry and intact. Thoroughly stir or shake the base component until a smooth uniform mix is obtained. Add activator to base while stirring.

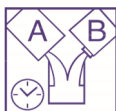
Note: All products and components should be placed in ambient conditions of 15-30 °C (59-86 °F) for at least 24 hours prior to mixing and application.



Viscosity: (23°C/73°F)

• AFNOR4	25 - 33 seconds
• BSB3	47 - 65 seconds
• BSB4	26 - 34 seconds
• FORD4	22 - 26 seconds
• ISO4	45 - 65 seconds
• ZAHN2	29 - 39 seconds

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



Pot Life:

1.5 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 1-2 double track coats to achieve the recommended dry film thickness.

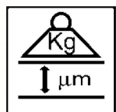


Theoretical Coverage: (ready for use)

15m²/Lt @ 35µm dry film thickness
600ft²/US gal @ 1.4mil dry film thickness

Recommended Dry Film Thickness:

25 - 50µm
1 - 2 (mil)



Dry Film Density:

1.12 g/cm³ (white)
9.33 lbs/US gal

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Dry Film Weight:

39 g/m² @ 35 µm dry film thickness
0.007 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
Airmix	11 thou	29 - 51 psi 2 - 3.5 bar
HVLP Airspray	1.0 - 1.8mm	29 - 44 psi 2 - 3 bar
Pressure Pot	1.0 - 1.8mm	29 - 44 psi 2 - 3 bar
Airless	11 thou	1015 psi 70 bar
Air-assisted Airless Electrostatic	9 - 11 thou	29 - 51 psi 2 - 3.5 bar
Low Pressure Electrostatic	1.0 - 1.2mm	58 psi 4 bar



For small areas (<1 m²) apply using a brush or roller.

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:
Colourless



Gloss:
<5 units with a 60° gloss meter

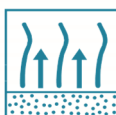
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DRYING TIMES	23 °C(73 °F)
Surface Dry	20 to 30 minutes
Maskable	3 to 4 hours

RECOMMENDED OVERCOATING TIMES & PRE-TREATMENTS				
Paint Scheme	Topcoat CA8000	Topcoat CA8300	Epoxy Primer PR205	PU Primer CA7045
Overcoating time (without surface prep.)	2 to 72 hours	2 to 72 hours	5 to 48 hours	3 to 72 hour
Overcoating time (with surface prep)	72 hours to 7 days Scotchbrite™ abrade & degrease		48 hours to 7 days Scotchbrite™ abrade & degrease	
Overcoating after 7 days	Reapply paint scheme prior to CV124 application			

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



Flash Off Time:

15 minutes prior to overcoating



VOC: (ASTM)

Mixed ready for use	420 g/Lt
CV124 Base Component	550 g/Lt
CA8300B Activator	110 g/Lt



Flash Point:

CV124 Base Component	-4 °C (25 °F)
CA8300B Activator	35 °C (95 °F)

Shelf Life:

CV124 Base Component	24 months in original unopened container
CA8300B Activator	24 months 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.



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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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