

TECHNICAL DATA SHEET

Product Description

CV123 is a high gloss, polyurethane hybrid varnish, based on the polymer technology of Desothane® CA8300 HS polyurethane series. CV123 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 gloss retention & UV light resistance
- Excellent resistance to aircraft fluids including Skydrol

Components



Mix Ratio (by volume)

CV123 (Base) 2 part
 CA8300B (Activator) 1 part
 CA8300C2 (Reducer) 0.5 part

Specifications



CV123 is qualified to:

BS2X34 Type A+B

Product Compatibility

CV123 is compatible with the following primer topcoat specification:

BS2X33B

CV123 is compatible with the following topcoat specification:

BS2X34B

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

Surface Preparation and Pretreatment



Ensure surface in 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.



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 and hardener 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)

•	AFNOR2.5	56 - 70 seconds
•	AFNOR4	16 - 19 seconds
•	BSB3	30 - 36 seconds
•	BSB4	17 - 21 seconds
•	FORD4	15 - 17 seconds
•	ISO3	50 - 71 seconds
•	ISO4	22 - 34 seconds
•	ZAHN2	20 - 23 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 - 85%

Application:

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



Theoretical Coverage: (ready for use)

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

Recommended Dry Film Thickness:

25 - 50 µm 1 - 2 (mil)





Dry Film Density:

1.08 g/cm³ 9 lbs/US gal

Dry Film Weight:

38 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:

>85 units with a 60° gloss meter



DRYING TIMES@ 23°C (73°F) 50% RH				
Surface Dry	20 - 30 minutes			
Dry to Tape	3 - 4 hours			

RECOMMENDED OVERCOATING TIMES & PRE-TREATMENTS									
Paint Scheme	Topcoat CA8000	Topcoat CA8300	Epoxy Primer PR205	PU Primer CA7045					
Overcoating time (without surface prep.)	1 to 24 hours	2 to 24 hours	5 to 48 hours	1 to 48 hour					
Overcoating time (with surface prep)	Scotchbrite™ abrade &		48 hours to 7 days Scotchbrite™ abrade & degrease						
Overcoating after 7 days	Reapply paint scheme prior to CV123 application			tion					

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



VOC: (ASTM)

Mixed ready for use420g/LtCV123 Base Component470g/LtCA8300B Activator110g/LtCA8300C2 Reducer900g/Lt



Flash Point:

 CV123 Base Component
 >21°C (70°F)

 CA8300B Activator
 25°C (77°F)

 CA8300C2 Reducer
 25°C (77°F)



Shelf Life:

CV123 Base Component CA8300B Activator CA8300C2 Reducer 24 months in original unopened container 24 months in original unopened container 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.

<u>Note:</u> 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.



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 Tel 61 (3) 9335 1557 Fax 61 (3) 9335 3490

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