



Desothane® HS CA8001B0900C HS Clearcoat

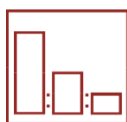
TECHNICAL DATA SHEET

Product Description

CA8001B0900C is a polyurethane clearcoat, designed for the protection of aircraft exterior surfaces.

- High solids, Low VOC
- Chemical resistant
- Excellent flexibility
- Excellent UV durability
- Improves durability of Desothane® HS CA8000 topcoat
- For use with Desothane® HS CA8000 Mica system

Components



Mix Ratio (by volume)

- | | |
|-----------------------|----------|
| • CA8001B0900C (Base) | 2 parts |
| • CA8000B (Activator) | 1 part |
| • CA8000C (Reducer) | 0.5 part |

Specifications



CA8001B0900C is qualified to:

- AIMS 04-04-23

Product Compatibility

CA8001B0900C is compatible with the following topcoat specifications:

- | | |
|------------------|---------------|
| • AIMS 04-04-012 | • BAMS 565-09 |
| • AIMS 04-04-013 | • BMS 10-60 |
| • AIMS 04-04-031 | • BMS 10-72 |
| • AIMS 04-04-032 | • DHMS C4.04 |

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 cleaners are recommended. Observe recommended overcoating windows as per drying table below. If sanding of previous coats is required, use fine Scotch-Brite® pad and wipe clean with propyl alcohol prior to application of CA8001B0900C.

Instructions for Use



Base component should be manually stirred only. Ensure all components are adequately mixed. Add activator to base and stir thoroughly then add reducer. **DO NOT ADJUST VISCOSITY.**

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:

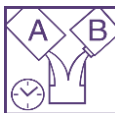
Not required



Viscosity: (23°C/73°F)

• AFNOR4	14 - 17 seconds
• BSB3	25 - 32 seconds
• ISO4	17 - 27 seconds
• ZAHN2	15 - 21 seconds

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



Pot Life:

2 hours @ 21 - 25°C (70 - 77°F)

Application Guidelines

Recommended Application Conditions:

Temperature	15 - 30°C (59 - 86°F)
Relative Humidity	30 - 80%

Application:

Apply a full single track coat followed by a double track coat. Refer to below drying table for recommended overcoating intervals.

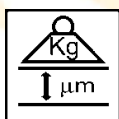
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Theoretical Coverage: (ready for use)
9 m²/Lt @ 50 µm dry film thickness
360 ft²/US gal @ 2 mil dry film thickness

Recommended Dry Film Thickness:

40 - 60 µm
1.6 - 2.4 (mil)



Dry Film Density:

1.13 g/cm³
9.42 lbs/US gal

Dry Film Weight:

56 g/m² @ 50 µm dry film thickness
0.011 lbs/ft² @ 2 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	Flow Rate	Pressure
Airmix	611	280 to 320 ml/min	725 to 870 psi (50 to 60 bar)
HVLP Air Spray	1.2 to 1.4 mm		14 psi (1 bar)
Conventional Air Spray	1.4 to 1.5 mm		43 to 72 psi (3 to 5 bars)
Airless	Not Recommended		
Air assisted Airless Electrostatic	611	280 to 320 ml/min	43 to 72 psi (3 to 5 bar)
Low Pressure Electrostatic	1.2 to 1.5 mm	220 to 320 ml/min	58 to 87 psi (4 to 6 bar)

Note: Pressure may need to be optimised to suit local conditions

Equipment Cleaning:

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

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Physical Properties



Colour:
Colourless



Gloss:
> = 90 units with a 60° gloss meter



Drying Times @ 23°C (73°F) 50 % R.H

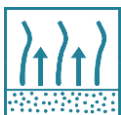
Drying times of CA8001B0900C

	Clear Coat 8001B0900C
Time Between Coats	1 to 1.5 hours
Dry to Overcoat	8 to 72 hours
Full Cure	7 days

Drying times of CA8000 prior to overcoating with CA8001B0900C

	CA8000C	CA8000C1	CA8000C2	CA8000C3
CA8000 Overcoat Time (if sanding is not required)	4 to 6 hours	3 to 4 hours	1 to 2 hours	0.5 to 1 hour
CA8000 Overcoat Time (if sanding is required)	24 hours	12 hours	2 to 3 hours	1 to 2 hours
CA8000 Mica Overcoat Time	6 to 7 hours	4 to 5 hours	2 to 3 hours	1 to 2 hours

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



Flash Off Time:
Not applicable

VOC

VOC: (ASTM)

Mixed ready for use	495 g/Lt
CA8001B0900C Base	590 g/Lt
CA8000B Activator	110 g/Lt
CA8000C Reducer (all types)	865 g/Lt



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Flash Point:

CA8001B0900C Base	22°C (72°F)
CA8000B Activator	47°C (117°F)
CA8000C (all types) Reducer	22°C (72°F)

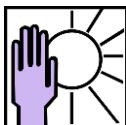
Shelf Life:

CA8001B0900C Base	24 months in original unopened container
CA8000B Activator	24 months in original unopened container
CA8000C (all types) Reducer	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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