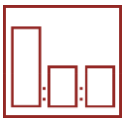
Desothane® HS CA8900 Wing Coating

Product Description

CA8900 is a two component polyurethane topcoat, designed to protect the upper surface of aircraft wings and stabilizers.

- High solids, Low VOC
- Quick drying
- Excellent flexibility
- Low surface roughness
- Compatible with high solid, conventional and wash primers

Components



Mix Ratio (by volume)

- CA8900 (Base) 2 part
- CA8000B (Activator) 1 part
- CA8000C3 (Thinner) 1 part

Specifications

CA8900 is qualified to:

- AIMS 04-04-026 (RAL7004 Grey only)
- AIMS 04-04-034

Product Compatibility

CA8900 is compatible with the following primer/topcoat specifications:

- AIMS 04-04-001
- AIMS 04-04-002
- AIMS 04-04-026
- AIMS 04-04-034
- AIMS 04-04-054
- AMS 3095

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

Surface Preparation and Pretreatment

Ensure surface to be painted is clean, dry and intact using a high performance solvent cleaner. DeSoto® CN20 or Desoclean™ 45 solvent cleaners are recommended. Observe recommended primer overcoating windows.

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Instructions for Use

Hand stir or mechanically shake base material until all components are uniformly dispersed. Add activator to base material and mix thoroughly. Then add thinner while stirring. **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.

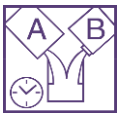
Induction Time:

Not required

Viscosity: (23°C/73°F)

- AFNOR4 19 - 23 seconds
- BSB3 34 - 46 seconds
- BSB4 19 - 25 seconds
- FORD4 16 - 21 seconds
- ISO4 28 - 43 seconds
- ZAHN2 21 - 28 seconds

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



Pot Life:

1 hour @ 15-25°C (59-77°F) with 8000C3 thinner

Application Guidelines

Recommended Application Conditions:

Temperature	15 - 35°C (59 - 95°F)
Relative Humidity	30 - 75%

Application:

1 cross-coat to achieve the recommended dry film thickness.

Theoretical Coverage: (ready for use)

20 m²/Lt @ 30 µm dry film thickness
800 ft²/US gal @ 1.2 mil dry film thickness

Recommended Dry Film Thickness:

20 - 40 µm
1.8 - 1.6 (mil)

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Dry Film Density:

1.57 g/cm³
13.0 lbs/US gal

Dry Film Weight:

47 g/m² @ 30 µm dry film thickness
0.009 lbs/ft² @ 1.2 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 (ml/min)	Air Pressure
Airmix Kremlin	Ø=0.28mm= Angle 60° Ref:06.134	320 - 360	725 - 870 psi (50 - 60 bar)
HVLP Air Spray	1.2mm		22 - 29 psi (1.5 - 2 bar)
Conventional Airspray	1.5mm		44 - 72 psi (3 - 5 bar)
Airless	Not Recommended		
Air-assisted Airless Electrostatic	611 or 613	360	725 - 870 psi (50 - 60 bar)
Electrostatic Spray PRO Graco	1.2 or 1.5mm	320 - 360	58 - 72 psi (4 - 5 bar)

Equipment Cleaning:

Clean spray equipment before use and as soon as possible after use. DeSoto® CN20, CN44 or Desoclean™ 45 are recommended.

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Physical Properties

Colour:

White: BAC 7067, M08002, M08003. RAL9003
Grey: M09001, M09004, RAL7004
Black: BAC 701

Gloss:

<70 units with a 60° gloss meter

Drying Times @ 23°C (73°) 50% Relative Humidity	
Dust Free	45 minutes
Dry to Tape	2 hours
Dry to Overcoat	72 hours
Full Cure	7 days

Drying Times @ 60°C (140°) 50% Relative Humidity	
Dust Free	5 minutes
Dry to Tape	15 minutes
Dry to Overcoat	2 to 24 hours
Full Cure	3 days

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

Flash Off:

Not applicable

VOC: (ASTM)

Mixed ready for use	<420 g/Lt
CA8900 Base Component	240-260 g/Lt
CA8000B Activator	115 g/Lt
CA8000C3 Thinner	860 g/Lt

Flash Point:

CA8900 Base Component	33°C (91°F)
CA8000B Activator	47°C (117°F)
CA8000C3 Thinner	22 C (72°F)

Shelf Life:

CA8900 Base Component	24 months in original unopened container
CA8000B Activator	24 months in original unopened container
CA8000C3 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 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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