PPG Aerospace
PRC-DeSoto

Desothane® HD CA9000/B900 Clearcoat

TECHNICAL DATA SHEET

Product Description

Desothane® HD CA9000/B900 clearcoat is a high solids, buffable, polyurethane clearcoat with exceptional application and performance properties. It is designed to be used with CA9000 basecoat as part of the Desothane® HD basecoat/clearcoat system (BCCC).

- Improved process flow
- Good gloss and color retention
- Excellent fluid resistance
- Compatible with all current spray equipment
- Can be applied in a wide range of conditions
- Excellent image reflection
- Impact and erosion resistance
- Buffable
- Service temperature -54°C to 177°C (-65°F to 350°F)

Note: BCCC system should be used over a urethane compatible epoxy primer such as Desoprime™ series CA7502CF, CA7700, and CA7755.

Components

Mix ratio (by volume):

• CA9000/B900 (base component)	2 parts
• CA9000Z (activator component)	1 part
• CA9000F (flow control component)	1 part
• Kit yield	4 gallons

Note: Flow control is available in CA9000F, CA9000FR, CA9000F1, and CA9000F2.

Specifications

CA9000/B900 clearcoat is qualified to:

- AMS 3095

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

CA9000/B900 clearcoat has been tested to:

- BAMS 565-018

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Product Compatibility:

CA9000/B900 clearcoat is compatible with the following topcoat specifications:

- AMS 3095
- BAMS 565-009
- BMS 10-60 Type I & Type II
- BMS 10-72 Type VIII
- BMS 10-125 Type III
- DHMS C4.04
- DPM 6546
- MEP 10-069

Surface Preparation and Pretreatments

Desothane® clearcoat CA9000/B900 can be applied over clean, dry, intact CA9000 basecoat. For further information, refer to the Technical Data Sheet for the above mentioned topcoats.

Instructions for Use

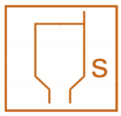
Mixing Instructions:

Prior to mixing, thoroughly stir the base component. Add activator to base component and stir well. Then add the flow control component. Maintain constant agitation for 10 minutes to ensure proper mixing.

Note: It is important to condition the paint for 24 hours prior to mixing by placing all materials in the shop or hangar, with ambient temperatures between 13°C and 35°C (55° to 95°F). The minimum temperature of the paint components should be 13°C (55°F) prior to mixing.

Induction Time:

Not Required



Viscosity: (23°C/73°F)

#2 Signature Zahn cup	16 to 20 seconds
#4 Ford cup	12 to 14 seconds
ISO 3mm cup	37 to 50 seconds
ISO 4mm cup	18 to 22 seconds
BSB3 cup	26 to 30 seconds
BSB4 cup	15 to 17 seconds
AFNOR #2.5 cup	45 to 56 seconds
AFNOR #4 cup	15 to 16 seconds

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

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Pot Life:

3 hours @ 21 - 25°C (70 - 77°F)

Application Guidelines

Recommended Application Conditions:

Temperature	15 - 30°C (59 - 86°F)
Relative Humidity	20 - 90%

Application:

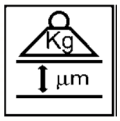
Ground the aircraft and the application equipment before clear coating. Stir the clearcoat slowly during the application. The suggested film thickness is 25 to 75 microns (1 to 3 mils). This can be accomplished by one or two medium coats with a 50% overlap. Note the first coat should be allowed to tack up before applying the second coat. If the second is applied before the first coat has tacked up, sagging can occur.

These application guidelines represent PPG's best advice in standard conditions. Some parameters will be influenced by environmental conditions, equipment settings, and other variables.

Theoretical Coverage:

20 square meters/liter at 25 microns dry film (801 square feet/gallon at 1 mil dry film)

Recommended dry film thickness; 25 to 75 microns (1 to 3 mils)



Dry Film Density:

1.16 grams/cubic centimeter (9.66 pounds/gallon)

Dry Film Weight:

29 grams/square meter at 25 microns dry film (0.0059 pounds/square feet at 1 mil dry film)

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Equipment:

CA9000/B900 is compatible with all current forms of spray equipment.

Equipment Type	Tip Size	Pot Pressure	Atomization Pressure at the Cap
Electrostatic Air Spray Gun	1.2 mm or 1.5 mm	10 to 20 psi (0.69 to 1.4 bar)	45 to 60 psi (3.1 to 4.1 bar)
Electrostatic Air Assisted Airless Spray Gun	#611 or #613 (Graco Nomenclature)	700 to 1200 psi (48 to 82 bar)	40 to 60 psi (2.8 to 4.1 bar)
High Volume Low Pressure Spray Gun (HVLP)	1.0 mm to 1.4 mm	10 to 20 psi (0.69 to 1.4 bar)	10 psi maximum (0.69 bar)
Conventional Air Spray Gun	1.2 mm to 1.8 mm	10 to 20 psi (0.69 to 1.4 bar)	45 to 60 psi (3.1 to 4.1 bar)

Equipment Cleaning:

Clean spray equipment as soon as possible after use. Flush spray equipment with DeSoto® CN20, DeSoto® CN44, or Desoclean™ 45 high performance solvent cleaner.

Physical Properties (product)

Color: BAC 900 Clear

Gloss: 90+ G.U at 60°

Dry Times	13 - 21°C (55 - 70°F)	22 - 28°C (71 - 84°F)	>29°C (>85°F)
Dry to Tape	9 - 11 hours	8 - 10 hours	7 - 9 hours
Wet Edge	40 - 50 minutes	30 - 45 minutes	20 - 40 minutes
Time Between Coats	35 - 70 minutes	30 - 60 minutes	25 - 50 minutes
Dry to Fly	56 hours	48 hours	36 hours
Full Cure	7 days	7 days	7 days

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VOC (EPA method 24):

Mixed, ready to use VOC	420 grams/liter
Base Component	356 grams/liter
Activator Component	116 grams/liter
Flow Control Component	842 grams/liter

Flash point closed cup:

Base Component	34°C (93°F)
Activator Component	29°C (84°F)
Flow Control Component	16°C (60°F)

Shelf Life:

12 months from date of manufacture to most OEM material specifications. Consult the specification to verify shelf life requirements.

24 months from date of manufacture for PRC-DeSoto Standard.

Note: Shelf life is provided for original, unopened containers.

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 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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Issue Date: 7/14
Lit: 4090