

## Desothane® HD CA9007/B900 Clearcoat

### Product description

Desothane® HD CA9007/B900 polyurethane clearcoat is designed to provide excellent gloss and staining resistance. CA9007/B900 is designed to be used with CA9007 Basecoat as part of the Desothane® HD basecoat/clearcoat system (BCCC).

- Paint cycle time reduction
- Buffable
- Compatible with all current spray equipment
- Can be applied in a wide range of conditions
- Service temperature -54°C to 177°C (-65°F to 350°F)

Desothane® HD basecoat/clearcoat system (BCCC) provides excellent:

- Gloss and color retention
- Impact and erosion resistance
- Stain resistance
- Fluid resistance

*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):**

- |                                 |         |
|---------------------------------|---------|
| • CA9007/B900 (base component)  | 2 parts |
| • CA9007Z (activator component) | 1 part  |
| • CA9007F (thinner component)   | 2 parts |

### Specifications

CA9007/B900 clearcoat meets the performance requirements to the following specifications:

- DeSoto Standard

#### **Product compatibility:**

CA9007/B900 clearcoat is compatible with the following basecoats:

- CA9007 Basecoat

### Surface preparation and pretreatments

# Desothane® HD CA9007/B900 Clearcoat



Desothane® HD clearcoat, CA9007/B900, can be applied over clean, dry, intact CA9007 basecoat that has been overcoated with Sur-Prep AP-1. For further information, refer to the Technical Data Sheet for the above mentioned basecoat systems and Sur-Prep AP-1.

## Instructions for use



### **Mixing instructions:**

Add one (1) volume of CA9007Z activator to two (2) volumes of CA9007/B900 base component and stir well. Next add two (2) volumes of CA9007F thinner component while stirring. 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° 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:**

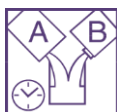
Not Required



### **Viscosity:** (23°C/73°F)

• #2 Signature Zahn cup	14 to 18 seconds
• #4 Ford cup	12 to 15 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.*



### **Pot life:**

2 hours @ 21 - 25°C (70 - 77°F)

## Application guidelines

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## Recommended application conditions:

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

## Application:

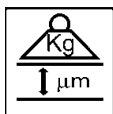
Ground the aircraft and the application equipment before applying the clear coat. The suggested film thickness is 25 to 50 microns (1 to 2 mils). This can be accomplished by 1 - 2 medium wet coats with a 50% overlap. Note the first coat should be allowed to tack up before applying the second coat. If 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:

14.1 square meters/liter at 25 microns dry film ( 575 square feet/gallon at 1 mil dry film)  
Recommended dry film thickness; 25 to 50 microns (1 to 2 mils)



## Dry film density:

1.01 grams/cubic centimeter (8.45 pound/gallon)

## Dry film weight:

30 grams/square meter at 25 microns dry film (0.006 pounds/square feet at 1 mil dry film)



## Equipment:

CA9007/B900 clearcoat 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:

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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:** Clear



**Gloss:** 90+ G.U. at 60°



Dry times		21 - 27°C (70 - 80°F) @ 30-60% R.H
Dry to touch		2 - 5 hours
Overcoat time between coats		45 – 90 minutes
Dry to tape		12 - 18 hours
Full cure		7 days

Sur-Prep AP-1 adhesion promoter must be applied over the CA9007 Basecoat prior to the application of the CA9007/B900 clearcoat. Consult the CA9007 Basecoat and Sur-Prep AP-1 TDS for application instructions.

**VOC**

**VOC:**

Mixed, ready to use VOC (EPA method 24)

420 grams/liter Maximum

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Base Component	544 grams/liter
Activator Component	0 grams/liter
Thinner Component	919 grams/liter



## Flash point closed cup:

Base Component	29°C (85°F)
Activator Component	191°C (385°F)
Thinner Component	-9°C (15°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 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

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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](http://www.ppgaerospace.com)**

**For sales and ordering information call the local PPG office at the numbers listed below:**

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