

# Desothane<sup>®</sup> HD CA9032 Walkway Coating

## TECHNICAL DATA SHEET

### Product Description

Desothane<sup>®</sup> HD CA9032 is a high solid polyurethane topcoat specifically engineered to the requirements of today's over-wing walkway coatings. Designed for roller application, CA9032 products can save significant time in the paint shop while reducing the overall system weight.

- Roller application saves setup, mask, and preparation time
- Faster cure resin system saves overall process time
- Lower density than most conventional walkway topcoats reduces weight
- Excellent aerodynamic properties
- Meets all FAA non-skid requirements
- Available in complete kits with pumice additive
- Service temperature -54°C to 177°C (-65°F to 350°F)

### Components

#### Mix ratio (by volume):



- |  |                                   |
|--|-----------------------------------|
| • CA9032/BXXXXX (base component)           | 4 parts                           |
| • CA9032B (activator component)            | 4 parts                           |
| • CA9032C ( reactivator thinner component) | 1 part                            |
| • 920K059 (pumice component)               | 35 grams per quart of mixed paint |

#### Kite Yield

Quart kit yield	72 ounce plus applicable pumice
Gallon kit yield	2 ¼ gallon plus applicable paint

*Note: Only CA9032/B7022 is kitted with pumice.*

### Specifications



CA9032 walkway coating is qualified to:

- BMS 10-141

*Note: PPG Aerospace recommends you check the most recent Process Standard for updated information.*

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## Product Compatibility:

CA9032 walkway coating is compatible with the following primers:

- BAMS 565-008
- BMS 10-11 Type I
- BMS 10-72 Type VIII & Type IX
- BMS 10-79 Type II & Type III
- DMS 1786
- MEP 10-068

CA9032 walkway coating is compatible with the following polyurethane topcoats:

- AMS 3095
- BAMS 565-009
- BMS 10-60 Type II Class B Grade D
- BMS 10-72 Type VIII Class C
- BMS 10-125
- BMS 10-126
- DMS 2143
- MEP 10-069

## Surface Preparation and Pretreatments



The surface must be thoroughly clean and free of oil, dust, etc. Prime entire surface to be painted with one medium coat of high quality urethane compatible corrosion-resistant primer such as Desoprime<sup>™</sup> HS CA7502 or CA7700BE. When applying over existing polyurethane topcoat, scuff sand with Scotch-Brite<sup>™</sup> and solvent clean with Desoclean<sup>®</sup> 110 prior to applying CA9032.

## Instructions for Use



### Mixing Instructions:

Shake the base component to uniformity for (10 minutes minimum). Add four volumes of CA9032B activator component to four volumes of CA9032/B7022 base component while mixing. Using a clean stainless steel spatula, mix to uniformity. While mixing, slowly add one volume of CA9032C reactive thinner component. Mix to uniformity again. Add 35 grams of 920K059 pumice per quart (32 fl. oz.) of mixed paint. For best results, apply the coating by roller immediately after 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

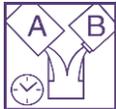
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## Viscosity: (23°C/73°F)

- |                         |                  |
|-------------------------|------------------|
| • #2 Signature Zahn cup | 20 to 24 seconds |
| • #4 Ford cup           | 15 to 19 seconds |
| • ISO 3                 | 50 to 78 seconds |
| • ISO 4                 | 22 to 37 seconds |
| • BSB3                  | 30 to 38 seconds |
| • BSB4                  | 17 to 23 seconds |
| • AFNOR #2.5            | 56 to 76 seconds |
| • AFNOR #4              | 16 to 20 seconds |

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



## 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 top coating. Stir the topcoat slowly during the application. The suggested film thickness is 25 to 75 microns (1 to 3 mils). This can be accomplished with one or two medium coats. The first coat should be allowed to dry tack free before applying the second coat. This topcoat may be applied using a solvent resistant foam roller cover.

This coating can be sprayed using HVLP on conventional spray equipment.

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

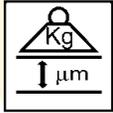


### Theoretical Coverage:

23 square meters/liter at 25 microns dry film (962 square feet/gallon at 1 mil dry film)

Recommended dry film thickness; 25 to 75 microns (1.0 to 3.0 mils)

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**Dry Film Density:**

1.68 grams/cubic centimeter (14 pounds/gallon)

**Dry Film Weight:**

42 grams/square meter at 25 microns dry film (0.0087 pounds/square feet at 1 mil dry film)



**Equipment:**

CA9032 is designed for roller application.

## Physical Properties (product)



**Color:**

Available in BAC 7022. BAC 701 Black and BAC 3494 Yellow may be applied over pumice loaded BAC 7022 White.



**Gloss:**

Not Applicable



**Dry Times at 24°C (75°F), 50% R.H.**

Dust Free	5 - 10 minutes
Tack Free	15 - 30 minutes
Dry to Tape	2 - 3 hours
Dry to Fly	48 hours
Full Cure	7 days

**Accelerated cure:**

Allow 30 minutes flash off at 24°C ± 3°C ( 75°F ± 10°F)  
followed by 60 minutes at 49°C 120°F



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## VOC

### VOC (EPA method 24):

Mixed, ready for use VOC	420 grams/liter
Base Component	602 grams/liter
Activator Component	215 grams/liter
Reactive Thinner Component	0 grams/liter



### Flash point closed cup:

Base Component	29°C (84°F)
Activator Component	8°C (46°F)
Reactive Thinner Component	77°C (171°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 the 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.*

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

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