

# Desothane<sup>®</sup> HS CA8012/B701 Walkway Coating

## TECHNICAL DATA SHEET

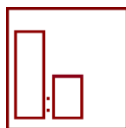
### Product Description

Desothane<sup>®</sup> HS CA8012/B701 walkway coating is a high solids, anti-skid polyurethane topcoat. It is designed to be used on the upper wings of aircraft to prevent passengers from slipping during an emergency evacuation.

- Excellent adhesion to Desoprime<sup>™</sup> HS primers and Desothane<sup>®</sup> HS topcoats
- Supplied as a complete kit including the pumice component
- Excellent exterior durability
- Smooth surface for low aerodynamic drag
- May be applied with a roller
- Meets FAA requirements for non-skid
- Service temperature -54°C to 177°C (-65°F to 350°F)

### Components

#### Mix ratio (by volume for base and activator):



- |                                  |             |
|----------------------------------|-------------|
| • CA8012/B701 (base component)   | 2 parts     |
| • CA8010DX (activator component) | 1 part      |
| • 920K058 (pumice component)     | as required |

*Note: Quart kit yields 31 fl. oz. plus 33 grams of pumice*

*Note: Gallon kit yields 3 gallons plus 396 grams of pumice*

### Specifications



CA8012/B701 topcoat meets the requirements of :

- BAC 5705 Type I

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

#### Product Compatibility:

CA8012/B701 is compatible with the following coating specifications:

- |                                |                       |
|--------------------------------|-----------------------|
| • BMS 10-11 Type I             | • BMS 10-125 Type III |
| • BMS 10-60 Type I & Type II   | • DMS 2143            |
| • BMS 10-72 Type VIII          | • DMS 2144            |
| • BMS 10-79 Type II & Type III |                       |

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## Surface Preparation and Pretreatments



Desothane<sup>®</sup> HS topcoat CA8012/B701 can be applied over clean, dry, intact primed or top coated surfaces.

## Instructions for Use



### **Mixing Instructions:**

Prior to mixing, thoroughly shake the base component. Add the activator component to the base component and stir well. Then add the pumice component and 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:**

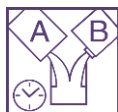
Not Required



### **Viscosity without pumice: (23°C/73°F)**

- #4 Ford cup 30 seconds maximum

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



### **Pot Life:**

2 hours @ 21 - 25°C (70 - 77°F)

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## Application Guidelines

### Recommended Application conditions:

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

### Application:

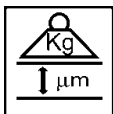
Ground the aircraft and the application equipment before top coating. Stir the topcoat slowly during the application. The suggested film thickness is 125 to 175 microns (5.0 to 7.0 mils). This can be accomplished by two or three medium coats with a 50% overlap. Note the second and third coats should be allowed to dry tack free before applying another coat. This topcoat may be applied using a solvent resistant foam roller cover.

*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:

21 square meters/liter at 25 microns dry film (844 square feet/gallon at 1 mil dry film)  
 Recommended dry film thickness; 125 to 175 microns (5.0 to 7.0 mils)



### Dry Film Density:

1.56 grams/cubic centimeter (13 pounds/gallon)

### Dry Film Weight:

39 grams/square meter at 25 microns dry film (0.008 pounds/square feet at 1 mil dry film)

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### Equipment:

CA8012/B701 topcoat is compatible with HVLP spray equipment and can also be roller applied.

Equipment Type	Tip Size	Pot Pressure	Atomization Pressure at the Cap
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)

### Equipment Cleaning:

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

## Physical Properties (product)



**Color:** BAC 701 Flat Black



**Gloss:** <10 G.U. at 60°



Dry Times	13 - 21°C (55 - 70°F)	22 - 28°C (71 - 84°F)	>29°C (>85°F)
Time Between Coats	20 - 25 minutes	15 minutes	10 - 15 minutes
Dry to Tape	4 - 5 hours	3 - 4 hours	2 - 3 hours
Dry to Fly	36 hours	24 hours	18 hours
Full Cure	7 days	7 days	7 days

Accelerated cure to dry hard:

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

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**VOC:**

Mixed, ready for use VOC (EPA method 24)	420 grams/liter
Base Component	452 grams/liter
Activator Component	357 grams/liter
Pumice Component	0 grams/liter



**Flash point closed cup:**

Base Component	29°C (84°F)
Activator Component	27°C (80°F)
Pumice Component	No flash point

**Shelf Life:**

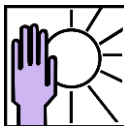
12 months from date of manufacture to most process standards. Consult the process standard to verify shelf life requirements.

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 process standard, 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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