

# Desothane<sup>®</sup> HS CA8022/B7022 Walkway Coating

## TECHNICAL DATA SHEET

### Product Description

Desothane<sup>®</sup> HS CA8022/B7022 walkway coating is a high solids, anti-skid polyurethane topcoat. It is used on the upper wings of aircraft to prevent passengers from slipping during an emergency evacuation.

- Excellent adhesion to Desoprime™ 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):



- |                                  |             |
|----------------------------------|-------------|
| • CA8022/B7022 (base component)  | 2 parts     |
| • CA8020DX (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



CA8022/B7022 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:

CA8022/B7022 is compatible with the following primer and topcoat 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 |                       |

# Desothane<sup>®</sup> HS CA8022/B7022 Walkway Coating

## Surface Preparation and Pretreatments



Desothane<sup>®</sup> HS CA8022/B7022 topcoat 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 pumice 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:**

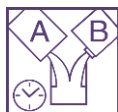
Not Required



### **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)

# Desothane<sup>®</sup> HS CA8022/B7022 Walkway Coating

## Application Guidelines

### Recommended Application conditions:

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

### Application:

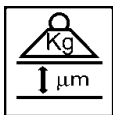
Ground the aircraft and the application equipment before priming. Stir the topcoat slowly during the application. The suggested film thickness is 125 to 175 microns (5.0 to 7.0 mils). This can be accomplished by two or three medium coats with a 50% overlap. Note the second coat should be allowed dry tack free before applying the next coat. Use a solvent resistant roller cover to apply CA8022/B7022.

*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)

# Desothane<sup>®</sup> HS CA8022/B7022 Walkway Coating



### Equipment:

CA8022/B7022 topcoat is compatible with HVLP spray equipment and can 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 7022 Semi-Gloss White



**Gloss:** 15 - 45 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 for 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)

# Desothane<sup>®</sup> HS CA8022/B7022 Walkway Coating

## VOC

### VOC:

Mixed, ready for use VOC (EPA method 24)	420 grams/liter
Base Component	457 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:

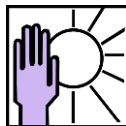
12 months from date of manufacture to most process standards Consult the process standard to verify shelf life requirements.

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 the process standard, follow those storage instructions.*

# Desothane<sup>®</sup> HS CA8022/B7022 Walkway Coating

## 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)**

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

### **Asia Pacific**

#### **ASC – Australia**

Tel 61 (3) 9335 1557  
Fax 61 (3) 9335 3490

#### **ASC – Japan**

Tel 81 561 35 5200  
Fax 81 561 35 5201

#### **ASC – South East Asia**

Tel 65 6861 1119  
Fax 65 6861 6162

#### **ASC – Suzhou**

Tel (86-512) 6661 5858  
Fax (86-512) 6661 6868

#### **ASC – Tianjin**

Tel (86-022) 2482 8625  
Fax (86-022) 2482 8600

### **Americas**

1 (818) 362-6711 or 1-800-AEROMIX

### **Europe and Middle East**

#### **ASC – Central Europe**

Tel 49 (40) 742 193 10  
Fax 49 (40) 742 139 69

#### **ASC – Middle East & India**

Tel (971) 4 883 9666  
Fax (971) 4 883 9665

#### **ASC – North Europe**

Tel 44 (0) 1388 770222  
Fax 44 (0) 1388 770288

#### **ASC – South Europe**

Tel 33 (0) 235 53 43 71  
Fax 33 (0) 235 53 54 44

**Desoclean, Desoprime, Desothane, and DeSoto are trademarks of PRC-DeSoto International, Inc.**

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.

PRC-DeSoto International, Inc.

12780 San Fernando Road  
Sylmar, CA 91342

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

Issue Date: 9/16  
Lit: 4194