

## CA8211 Desothane® HS Military & Defence Topcoat (EMEA)

### Product Description

Desothane® HS military topcoat is a high solids polyurethane topcoat used to protect the exteriors of military aircraft and land based defence equipment.

- High Solids, Low VOC
- Excellent UV resistance & long term durability
- Excellent fluid resistance
- Can be used with PPG military selectively strippable scheme

### Components



#### Mix Ratio (by volume)

- CA8211 (Base) 3 volumes
- CA8200B (Activator) 1 volume

### Specifications



CA8211 is qualified to:

- AIMS 04-04-036
- AIMS 04-04-060
- AIMS 04-04-061

CA8211 meets the performance requirements of ;

- MIL-PRF-85285 Type I Class H

CA8211 is compatible with the following primer specifications ;

- AIMS 04-04-012
- AIMS 04-04-031
- AIMS 04-04-032
- AIMS 04-04-036
- AIMS 04-04-060
- AIMS 04-04-061
- BS2X33 A&B
- MIL-PRF-23377
- MIL-PRF-85582

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

# CA8211 Desothane® HS Military & Defence Topcoat (EMEA)

## Surface Preparation and Pretreatment



Ensure surface is clean, dry and intact using a high performance solvent cleaner. DeSoto® CN44 or Desoclean™ 45 solvent cleaners are recommended. Observe recommended overcoating window for primers.

## Instructions for Use



Base may require mechanical agitation. Ensure all components are adequately dispersed. Before adding the activator to the base, thoroughly stir or shake the base component until a smooth uniform mix is obtained. Immediately after adding the activator to the base, stir thoroughly until uniform. Product is now ready for use.

*Note: All products and components should be placed in ambient conditions of 15-30°C (59-86°F) for at least 24 hours prior to mixing and application.*



### **Induction Time:**

Not Required



### **Viscosity:** ( 23°C/73°F)

- AFNOR4 25 - 35 seconds
- ISO 4 50 - 80 seconds

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



### **Pot Life:**

2 hours @ 21 - 25°C (70 - 77°F)

# CA8211 Desothane® HS Military & Defence Topcoat (EMEA)

## Application Guidelines

### Recommended Application Conditions:

Temperature	15 - 35°C (59 - 95°F)
Relative Humidity	30 - 85%

### Application:

Apply one or 2 double track coats to achieve the recommended dry film thickness – allow the first coat to tack up prior to applying second coat.

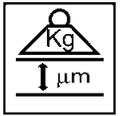


### Theoretical Coverage: (ready for use with mix ratio 3:1)

11 m<sup>2</sup>/Lt @ 45 µm dry film thickness  
440ft<sup>2</sup>/US Gallon @ 45 µm dry film thickness

### Recommended Dry Film Thickness:

35 – 55 µm (1.4 to 2.2 mil)  
455 ft<sup>2</sup>/US Gallon @ 1.8 mil dry film thickness



### Dry Film Density:

1.64 g/cm<sup>3</sup>  
13.7 lbs/US Gallon

### Dry Film Weight:

74 g/m<sup>2</sup> @ 45 µm dry film thickness  
0.015 lb/ft<sup>2</sup> @ 45 µm dry film thickness

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

## CA8211 Desothane® HS Military & Defence Topcoat (EMEA)

**Equipment:** CA8211 High Solids Topcoat is compatible with all current forms of spray equipment



Equipment type	Tip size	Air pressure	Fluid rate
Airless Air Assisted	609- 611	3 – 4 bars	400 ml/min
Low pressure Air spray electrostatic	1,2 – 1,5	3 – 4 bars	400 ml/min
Conventional Air Spray	1,2 – 1,8	3 – 4 bars	NA
HVLP	1,2 – 1,5	1,5 – 2 bars	NA

### Equipment Cleaning:

Clean spray equipment before use and as soon as possible after use. DeSoto® CN20, CN44 or Desoclean™ 45 solvent cleaners are recommended

## Physical Properties



### Colour:

Wide range of colours available



### Gloss:

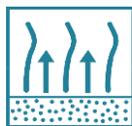
<5 gloss units using a 60° gloss meter



Drying Times 50% R.H	23°C (73°F)	@ 60°C	@ 90°C
Dust Free	-	15 mins	10 mins
Dry to Handle	-	30 mins	15 mins
Dry to Tape	10-14 hours	35 mins	20 mins
Dry to Sand	14 to 16 hours	45 mins	30 mins
Full Cure	7 days	3 hours	2 hours

**Note:** Drying times listed above are dependent upon film thickness applied, air flow conditions and application technique.

## CA8211 Desothane® HS Military & Defence Topcoat (EMEA)



### Flash Off Time :

15 - 30 minutes prior to force dry



### VOC: (ASTM)

Mixed Ready-for-Use	< 420 g/Lt
CA8211 Base Component	< 470 g/Lt
CA8200B Activator	210 g/Lt



### Flash Point:

CA8211 Base Component	26°C (79°F)
CA8200B Thinner	38°C (100°F)

### Shelf Life:

CA8211 Base Component	24 months in original unopened container.
CA8200B Activator	24 months in original unopened container

**Note:** Shelf life may vary due to OEM specification requirements. Refer to container label for specific shelf life information.

**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.

# CA8211 Desothane® HS Military & Defence Topcoat (EMEA)

## 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

### **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

### **Americas**

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

**Desoclean 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.

*This document has been reviewed by the PPG Aerospace Export Control Department and has been determined to contain only EAR99 controlled data*

PPG Aerospace  
Sealants and Coatings  
Darlington Road  
Shildon, Co Durham UK  
DL4 2QP  
[www.ppgaerospace.com](http://www.ppgaerospace.com)  
Issue Date: 07/2021  
Lit: 4821