



Desobond™ CA100 A/B Adhesion Promoter

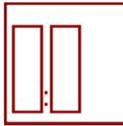
TECHNICAL DATA SHEET

Product Description

Desobond™ CA100 is a two component, low density adhesion promoter. It was developed to improve bonding characteristics to aged primers, topcoats, aluminum, and other aerospace alloys.

- Compatible with epoxy primers and urethane topcoats
- Eliminates sanding
- Can be sprayed with non-electrostatic spray equipment
- Can be wiped on with lint free wipes
- Service temperature -54 °C to 177 °C (-65 °F to 350 °F)

Components



Mix ratio (by volume):

- CA100A (base component) 1 part
- CA100B (activator component) 1 part

Specifications



CA100 is listed on:

- DPM 6568

Note: PPG Aerospace recommends you check the most recent process standard for updated information.

Product Compatibility:

CA100 is compatible with the following primer and topcoat specifications:

- BMS 10-11 Type I & Type II
- BMS 10-60 Type I & Type II
- BMS 10-72 Type VIII
- BMS 10-79 Type II & Type III
- BMS 10-103
- BMS 10-125 Type III
- DMS 2115
- MIL-PRF-23377
- MIL-PRF-85285
- MMS 420

Surface Preparation and Pretreatments



Desobond™ adhesion promoter CA100 can be applied over clean, dry, intact epoxy primers and polyurethane topcoats.

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Instructions for Use



Mixing Instructions:

Prior to mixing stir the base component. Slowly add the activator component and maintain constant agitation for 10 minutes to ensure proper mixing. Induction time may be required based on temperature.

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:

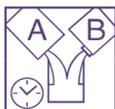
Temperature	13 - 21 °C (55 - 70 °F)	22 - 28 °C (71 - 84 °F)	>29 °C (>85 °F)
Induction Time Required	30 minutes	15 minutes	None



Viscosity: (23 °C/73 °F)

- #2 Signature Zahn cup 12 to 18 seconds
- #4 Ford cup 10 to 13 seconds
- ISO 3mm cup 30 to 44 seconds
- ISO 4mm cup 16 to 20 seconds
- BSB3 cup 24 to 28 seconds
- BSB4 cup 14 to 16 seconds
- AFNOR #2.5 cup 41 to 50 seconds
- AFNOR #4 cup 14 to 16 seconds

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



Pot Life:

8 hours @ 21 - 25 °C (70 - 77 °F)

Application Guidelines

Recommended Application Conditions:

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

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Application:

Ground the aircraft and the application equipment before using. Stir the adhesion promoter slowly during the application. The suggested film thickness is 2.5 microns (0.1 mils). This can be accomplished by one medium coat with a 50% overlap.

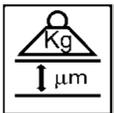
These application guidelines represent PPG's best advice in standard conditions. Some parameters will be influenced by environmental conditions, equipment settings, and other variables.



Theoretical Coverage:

6 square meters/liter at 25 microns dry film (210 square feet/gallon at 0.1 mils dry film)

Recommended dry film thickness; 2.5 microns (0.1 mils)



Dry Film Density:

1.0 grams/cubic centimeter (8.33 pounds/gallon)

Dry Film Weight:

3 grams/square meter at 25 microns dry film (0.006 pounds/square feet at 0.1 mils dry film)



Equipment:

Desobond™ CA100 is compatible with HVLP, air spray or airless spray equipment. It may also be applied with lint-free wipers.

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)
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:

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

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Physical Properties (product)



Color: Clear



Gloss: Not Applicable



Dry Times	13 - 21 °C (55 - 70 °F)	22 - 28 °C (71 - 84 °F)	>29 °C (>85 °F)
Dust Free	20 minutes	15 minutes	10 minutes
Tack Free	35 minutes	30 minutes	25 minutes
Dry to Overcoat	1 - 48 hours	1 - 48 hours	1 - 48 hours
Full Cure	7 days	7 days	7 days



VOC (EPA method 24):

Mixed, ready to use VOC	810 grams/liter
Base Component	793 grams/liter
Activator Component	827 grams/liter



Flash point closed cup:

Base Component	44 °C (111 °F)
Activator Component	6 °C (43 °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.

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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

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

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ASC – Australia

Tel 61 (3) 9335 1557
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