

TECHNICAL DATA

Desothane® HS Buffable Polyurethane Topcoats CA 8800 Series

Description

CA 8800 series buffable polyurethane topcoats are VOC compliant, chemically cured topcoats used to protect the exterior of aircraft. They are designed to be applied over conventional as well as high solid primers and surfacers to provide maximum performance.

CA 8800 has excellent appearance, long term durability, and is easy to apply in a variety of environmental conditions including high temperature and humidity. CA 8800 is compatible with all current spray equipment. For further details on application parameters, consult the Desothane HS buffable topcoats/CA 8800 series application guide or contact your local PPG Aerospace Application Support Center.

CA 8800 series topcoats are qualified to the following specifications:

- BAMS 565-009 (formerly CMS 565-09)
- CMFS 037
- Dessault Falcon Jet
- DHMS C4.04
- DPM 6546
- GAMPs 3209
- MEP 10-069
- Raytheon

CA 8800 series topcoats are compatible with the following primers:

- BMS 10-72 Type VIII
- BMS 10-79
- DMS 2104

Key features

- Excellent image reflection
- Retains gloss and color
- Improved stain resistance
- Buffable
- Excellent impact and erosion resistance
- Flexible
- Not affected by humidity
- Avoids "solvent pop" and micro blistering
- Fluid resistance

Application Properties (Typical)

Volatile organic compound (VOC)	
EPA method 24, mixed system	420 g/l max.
Mix ratio (by volume)	Gloss
Base (CA 8800/XXXXX)*	2 parts
Activator (CA 8800Z)	1 part
Thinner **(CA 8800CT)	1 part

Note: * XXXXX denotes color description

**Thinner available in 5 types: CA 8800CT, CA 8800CTR*, CA 8800CT1, CA 8800CT2, CA 8800CT3, CA8000CT4

Note: * CA 8800 CTR Retarder Solvent may be used at high temperatures above 95°F (30°C) to increase the wet edge without altering the dry-to-tape time.

Viscosity, Zahn #2 cup	
Fresh mixed	18 to 22 sec.
Pot life (see chart below)	26 sec. max.

Note: If further viscosity reduction is desired, use CA 1800CX or CA 1805CX, VOC compliant thinners. Maximum 25% per sprayable gallon.

Drying times and Pot life @ 77°F (25°C)

	Wet Edge (min)	Time between Coats (min)	Dry-to-Tape (hrs)	Potlife (hrs)
Thinner				
CA 8800CT	30-45	45-60	8-12	3
CA 8800CT1	15-30	30-45	5-7	2
CA 8800CT2	10-15	20-30	3-4	1
CA 8800CT3	8-12	15-20	1.5-2.5	45 min
CA 8800CT4	3-5	10-15	1.0-1.5	30 min

Dry to fly (depending upon thinner) 8-72 hours

Full cure 7 days

Dry film density 0.0068 ± 0.001 lbs/ft² @ 1.0 mil dry film (36.6 ± 5 g/m² @ 25 microns dry film)

Theoretical coverage 825 ± 50 ft²/gal @ 1.0 mil dry film (20 ± 1.2 m²/l @ 25 microns dry film)

Recommended dry film thickness 2 - 3 mils (50-75 microns)

Spray equipment: Compatible with all forms of spray equipment

Color
Available in a variety of colors

Shelf life
24 months from date of manufacture (PRC-DeSoto Standard)

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Performance Properties (Typical)

Service temperature -65°F to 350°F (-54°C to 177°C)	Conforms
Pencil hardness HB minimum	2H
Low temperature flexibility Conical mandrel	Conforms
UV-CON 300 hrs - GE-60%	Conforms
Impact resistance 80 inch/pounds	Conforms
Fluid resistance BMS 3-11 (LD-4), 30 days @ 77°F (25°C)	2H pencil
MIL-H-5605 hydraulic fluid	2H pencil
MIL-L-7808 oil	2H pencil
TT-S-735 Type III fluid	2H pencil
Distilled H ₂ O	Conforms
Weather resistance QUV 3000 hours	88 units of gloss
UV-CON 3000 hours	88 units of gloss
1 year in Florida	90 units of gloss
Corrosion resistance 1000 hours salt spray,	Conforms
Filiform/BSS 7258 Type I	Conforms
Luster, 60° Specular Gloss	90 units min.
Erosion resistance Whirling arm	Conforms

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 Life

Inspect the condition of the container to ensure compliance to FED-STD-141, Method 3011.1. The material should be stored at temperatures between 40°F to 100°F (4.4°C to 37.8°C) to ensure shelf life.

Health Precautions

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Material Safety Data Sheet (MSDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An MSDS 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
1-800-AEROMIX (237-6649).

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