

Desothane® Evolution - Aviation Basecoat

MBCH is a fast drying, 3.5 VOC (max) basecoat designed for the general aviation market. When used with Desothane CA8800/B900 clearcoat, this system provides ultimate durability, high gloss and a smooth finish that is resistant to a variety of chemicals and fluids, including Skydrol®. The basecoat is ready for clearcoating in as little as 30 minutes.

MBCH is available in a wide range of solid, metallic, pearl, OEM and customer specific colors. MBCH metallic and pearl colors provide exceptional pattern control without the need to correct appearance. The product is easily blended to produce invisible repairs.

MBCH is compatible with the following products:

MBCH Color	MBCH
Aviation BC Hardener	CAH250
Aviation BC Dry Add – Fast	CAX545
Aviation BC Dry Add	CAX550
Aviation BC Dry Add – Slow	CAX555

MBCH may be applied over:

CA7501 HS Chrome-Free Epoxy Primer
 CA7755 HS Epoxy Primer
 CA7650 HS Sandable Epoxy Primer/Surfacer
 When sanding prior to the application of MBCH, use 320 – 400 grit wet or dry.

Application Properties:

Application Temperature	55°F to 95°F (13°C to 35°C)
Application Humidity	10% to 80% R,H,
Mix Ratio (by volume):	



MBCH: 3 parts
CAH250 Hardener: 1 part
CAX Series BC Dry Add : 1 part

Choose BC Dry Add (CAX5xx) based on shop conditions and required dry speed.

Pot Life @ 70°F / 50% RH:

1.0 to 4.0 hours, varies with dry additive choice.
 High heat and humidity will shorten pot life.

Spray Viscosity:

#2 ZAHN CUP	18 – 24 seconds
#3 ZAHN CUP	7 – 10 seconds
4DIN	12 – 16 seconds
6DIN	4 – 8 seconds
8DIN	N/A

Spray Gun Set-up:

	HVLP	Conventional
Fluid Tip:	1.3 – 1.5 mm	1.3 – 1.5 mm
Air Pressure:	10 PSI at the cap	45 – 60 PSI
Pressure Pot Set-up:	1.0 – 1.4 mm with 8 – 12 fluid ounces/min.	1.0 – 1.4 mm with 8 – 12 fluid ounces/min.

Number of Coats:

1 cross coat or until hiding.

Dry Times:

Shop conditions and choice of BC Dry Add will affect dry times.

	CAX545	CAX550	CAX555
Dust-free:			
70°F (21°C)	20 – 30 minutes	30 – 45 minutes	60 – 90 minutes
Tape Time:			
70°F (21°C)	1.0 – 2.0 hours	2.0 – 3.5 hours	5.0 – 7.0 hours
140°F (60°C)	30 – 45 minutes*	0.5 – 1.0 hour*	1.0 – 2.0 hours*
Overcoat/Recoat:			
70°F (21°C)	30 minutes minimum	30 minutes minimum	1 hour minimum
	8 hours maximum	16 hours maximum	72 hours maximum

(Maximum before sanding is required.)

Heat and humidity will shorten Overcoat/Recoat window

A full cure of 7 days is required in order to provide desired chemical and fluid resistance performance.

* Force dry times are for quoted metal temperature. Additional time should be allowed in the force drying schedule to allow metal to reach recommended temperature.

Total Film Build:

	Wet	Dry
Minimum	2.0 mils	1.0 mils
Maximum	6.0 mils	3.0 mils

Theoretical Coverage:

640 to 760 sq. ft. depending on color.

Theoretical coverage in sq. ft./U.S. gallon ready-to-spray (RTS), giving 1 mil. (25µm) dry film thickness (assuming 100% transfer efficiency).

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Physical Characteristics:

VOC (Packaged):

MBCH	4.20 lbs./gallon or 503 grams/liter
CAH250	1.33 lbs./gallon or 160 grams/liter
CAX545	0 lbs./gallon or 0 grams/liter (less exempts)
CAX550	0 lbs./gallon or 0 grams/liter (less exempts)
CAX555	0 lbs./gallon or 0 grams/liter (less exempts)

VOC

(Ready-To-Spray): 3.49 lbs./gallon or 419 grams/liter (less exempts)

Total Solids

By Weight (RTS): 48.0 - 52.0%

Total Solids

By Volume (RTS): 41.0 – 43.0%

Health and Safety:

Please refer to Material Data Safety Sheets (MSDS) for full health safety details and storage regulations.

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.

EMERGENCY MEDICAL OR SPILL CONTROL INFORMATION: (412) 434-4515; IN CANADA (514) 645-1320.

Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the public. Products mentioned may be hazardous and should only be used according to directions, while observing precautions and warning statements listed on label. Statements and methods described are based upon the best information and practices known to PPG Industries. Procedures for applications mentioned are suggestions only and are not to be construed as representations or warranties as to performance, results, or fitness for any intended use, nor does PPG Industries warrant freedom from patent infringement in the use of any formula or process set forth herein.

PPG Industries Commercial Coatings

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