

TECHNICAL DATA SHEET

Product Description

EC96 Epoxy Finish possesses excellent adhesion and high chemical resistance. This combination makes it an ideal topcoat to enhance the protection of either epoxy or polyurethane primers used on the internal structure of aircraft.

- Two pack, ambient curing
- High solids, low VOC
- High resistance to aircraft fluids including phosphate ester hydraulic fluids

Components



Mix Ratio (by volume)

- EC96/.... (Base) 2 parts
 ACT196 (Activator) full gloss 1 part
- EC96/....(Base) 1 part
 ACT197 (Activator) near matt 1 part
- EC96/.... (Base) 1 part
- ACT199 (Activator) matt
 1 part

Specifications



EC96 is qualified to:

- DEF STAN 80-161
- MSRR9064

Product Compatibility

EC96 can be applied over the following primer specifications:

- Def Stan 80-206
- Def Stan 80-207
- BS2X33 A+B
- Def Stan 80-189
- Def Stan 80-216

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



Surface Preparation and Pretreatment



Ensure surface is clean, dry and intact using a high performance solvent cleaner - DeSoto[®] CN20 or Desoclean[™] 45 solvent cleaners are recommended. Observe recommended overcoat window for primers.

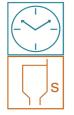
Instructions for Use



Hand stir or mechanically shake base material until all pigments are uniformly dispersed. Add activator to appropriate volume of base, depending on required gloss level;

Gloss FinishAdd 1 volume activator to 2 volumes baseNear Matt & Matt FinishAdd 1 volume activator to 1 volume baseStir thoroughly to ensure a smooth uniform consistency.DO NOT ADD ANY THINNER.

Note: All products and components should be placed in ambient conditions of 15-30 $^{\circ}$ (59-86 $^{\circ}$) for at least 24 hours prior to mixing and application.



Induction Time:

Not required

Viscosity: (23°C/73°F)

- AFNOR2.5
- AFNOR4
- BSB3
- BSB4
- FORD4
- ISO4
- ZAHN2

- 56 80 seconds 16 - 20 seconds 30 - 40 seconds
- 17 23 seconds
- 15 19 seconds
- 22 38 seconds
- 20 25 seconds

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

Do not add any thinner of any type.

Other than record purposes, it is not necessary to check the initial mix viscosity.



Pot Life:

4 hours @ 21-25 ℃ (70-77 °F)



Application Guidelines

Recommended Application Conditions:

Temperature Relative Humidity 15-35℃ (59-95℉) 30-85 %

Application:

Apply 1-2 double-track or cross-coats, sufficient to achieve the recommended dry film thickness.



Theoretical Coverage:

Gloss Finish - ACT196 (2:1 mix ratio)

• 25 m²/Lt @ 25 µm dry film thickness (1000 f²/US gal @ 1 mil dry film thickness)

Matt Finish - ACT199 (1:1 mix ratio)

• 23 m²/Lt @ 25 μm dry film thickness (920 f²/US gal @ 1 mil dry film thickness)

Recommended Dry Film Thickness:

20 - 30 μm 0.8 - 1.2 mil

μm

Dry Film Density: (White)

Gloss Finish - ACT196 (2:1 mix ratio)

• 1.89 g/cm³ (15.78 lbs/US gal)

Matt Finish - ACT199 (1:1 mix ratio)

• 2.12 g/cm³ (17.72 lbs/US gal)

Dry Film Weight: (White)

Gloss Finish - ACT196 (2:1 mix ratio)

• 47 g/m² @ 25 μm dry film thickness (0.0096 lbs/ft² @ 1 mil dry film thickness)

Matt Finish - ACT199 (1:1 mix ratio)

• 53 g/m² @ 25 μm dry film thickness (0.0108 lbs/ft² @ 1 mil 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.





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Equipment: EC96 is compatible with all current types of spray equipment.

Equipment Type	Tip Size	Pressure
Airmix	11 to 13 thou	29 to 43 psi
		(2 to 3 bar)
HVLP Air Spray	1.0 to 1.8 mm	29 to 43 psi
	1.0 10 1.8 mm	(2 to 3 bar)
Pressure Pot	1.0 to 1.4 mm	14 to 39 psi
FIESSUIE FOL		(1 to 2 bar)
Airless	Not Recommended	
Air-assisted Electrostatic	11 to 13 thou	43 to 72 psi
		(3 to 5 bar)
Low Pressure Electrostatic	1.0 to 1.2 mm	43 to 72 psi
		(3 to 5 bar)

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:

- Gloss: >85 units with a 60° gloss meter
- Matt: <5 units with a 60° gloss meter



Drying Times 50 % Relative Humidity	23℃ (73°F)	60°C (140°F)
Dry to Mask	10 to 12 hours	
Dry to Fly	48 hours	
Hard Dry	<16 hours	30 minutes
Full Cure	7 days	3 hours

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



VOC

Flash Off:

15 minutes before force dry.

VOC: (ASTM)



Mixed ready for use EC96 Base Component ACT196 Activator ACT199 Activator <420 g/Lt 300-330 g/Lt 480 g/Lt 505 g/Lt



Flash Point:

Shelf Life:

EC96 Base Component ACT196 Activator ACT199 Activator 24 months in original unopened container 24 months in original unopened container 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.

<u>Note:</u> 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° to 35° (41° to 95°) to ensure shelf life.

Note: When procuring to a qualified material specification, follow those storage instructions.



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 Fax 61 (3) 9335 3490

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