

# CV116 Polyurethane Coat Gloss

## TECHNICAL DATA SHEET

### Product Description

CV116 is a two pack, ambient curing clear polyurethane gloss coating, designed for internal / external use to protect identification markings, labels and emblems.

- High degree of cross linking for maximum chemical & fluid resistance
- Provides improved resistance to phosphate ester type hydraulic fluid
- Protects against fading or staining
- Also used as edge sealer for adhesive labels / emblems

### Components



#### Mix Ratio (by volume)

- |                         |              |
|-------------------------|--------------|
| • CV116 (Base)          | 2 parts      |
| • ACT34 (Activator)     | 1 part       |
| • T74 or T115 (Thinner) | to viscosity |

NOTE: No thinner is required for brush application.

### Specifications



CV116 is referenced on:

- ABP 4-2128
- ABP 9-4325

#### Product Compatibility

CV116 is compatible with the following primer / topcoat specifications:

- AIMS 04-04-001
- AIMS 04-04-004
- BS2X34 A+B

*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 are recommended. Observe recommended overcoating windows.

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## Instructions for Use



Stir or shake the base component to ensure complete dispersion. Add activator to base component and stir thoroughly. Add thinner to viscosity for spray application. No thinner is required for brush application.

*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:**

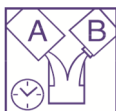
Not required



### **Viscosity:** (15-24 °C/59-75 °F)

• AFNOR2.5	45 - 56 seconds
• AFNOR4	15 - 16 seconds
• BSB3	26 - 30 seconds
• BSB4	15 - 17 seconds
• FORD4	12 - 15 seconds
• ISO3	37 - 50 seconds
• ISO4	18 - 22 seconds
• ZAHN2	16 - 20 seconds

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



### **Pot Life:**

8 hours @ 21 - 25 °C (70 - 77 °F) for spray application

2 hours @ 21 - 25 °C (70 - 77 °F) for brush application

## Application Guidelines

### **Recommended Application Conditions:**

Temperature	15 - 35 °C (59 - 95 °F)
Relative Humidity	20 - 85%

### **Application:**

Apply 1 double track coat to recommended dry film thickness.



### **Theoretical Coverage:** (unthinned)

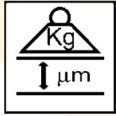
20 m<sup>2</sup>/Lt @ 25 µm dry film thickness

800 ft<sup>2</sup>/US gal @ 1 mil dry film thickness

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**Recommended Dry Film Thickness:**

15 - 30 µm  
0.6 - 1.2 (mil)



**Dry Film Density:**

1.2 g/cm<sup>3</sup>  
10 lbs/US gal

**Dry Film Weight:**

30 g/m<sup>2</sup> @ 25 µm dry film thickness  
0.006 lbs/ft<sup>2</sup> @ 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.*

**Equipment:**

CV116 is compatible with all current types of spray equipment and can also be applied by brush.



Equipment Type	Tip Size	Pressure
Airmix	9 to 11 thou	Refer to manufacturer
HVLP Air Spray	1.3 to 1.8 mm	29 to 43 psi (2 to 3 bar)
Pressure Pot	1.0 to 1.2 mm	29 to 43 psi (2 to 3 bar)
Airless	9 to 11 thou	Refer to manufacturer
Air-assisted Airless Electrostatic	9 to 11 thou	Refer to manufacturer
Low Pressure Electrostatic	1.0 to 1.2 mm	87 psi (6 bar)



**Equipment Cleaning:**

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

**Physical Properties**



**Colour:**  
Not Applicable



**Gloss:**  
Full Gloss: > 90 units with a 60° gloss meter

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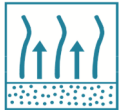


Drying Times @ 50% R. H.	23 °C (73 °F)	70 °C (158 °F)
Dry to Tape	6 hours	30 minutes
Dry to Overcoat	2 to 72 hours	
Full Cure	7 days	3 hours



NOTE: Drying time can be accelerated by the addition of AC5 accelerator - Refer to separate AC5 TDS for details.

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



### Flash Off Time:

20 minutes when force drying



### VOC: (ASTM)

Mixed (unthinned)	465 g/Lt
CV116 Base Component	560 g/Lt
ACT34 Activator	270 g/Lt
T74 Thinner	800 g/Lt
T115 Thinner	875 g/Lt



### Flash Point:

CV116 Base Component	23 °C (73 °F)
ACT34 Activator	20 °C (68 °F)
T74 Thinner	-7 °C (19 °F)
T115 Thinner	-4 °C (24 °F)

### Shelf Life:

CV116 Base Component	24 months in original unopened container
ACT34 Activator	24 months in original unopened container
T74/T115 Thinners	10 years 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.*

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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](http://www.ppgaerospace.com)**

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Fax (971) 4 883 9665

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Tel 44 (0) 1388 770222  
Fax 44 (0) 1388 770288

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Tel 33 (0) 235 53 43 71  
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### **Americas**

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

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