

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:

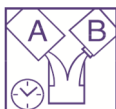
Not required



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)

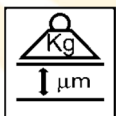
20 m²/Lt @ 25 µm dry film thickness

800 ft²/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/cm³
10 lbs/US gal

Dry Film Weight:

30 g/m² @ 25 μm dry film thickness
0.006 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.

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[®] CN20, CN44 or Desoclean[™] 45 solvent cleaners are recommended.

Physical Properties



Colour:

Not Applicable



Gloss:

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

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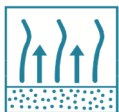


| Drying Times @ 50% R. H. | 23 °C (73 °F) | 70 °C (158 °F) |
|--------------------------|---------------|----------------|
| Dry to Tape | 6 hours | 30 minutes |
| Dry to Overcoat | 2 to 72 hours | |
| Full Cure | 7 days | 3 hours |



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

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

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