CV117 Hydraulic Fluid Resistant PU Lacquer

TECHNICAL DATA SHEET

Product Description

CV117 is a two pack, ambient curing blue tinted, polyurethane lacquer. CV117 has a blue tint which provides improved visibility in use.

- High degree of cross linking for maximum chemical & fluid resistance
- Provides improved resistance to phosphate ester based hydraulic fluids
- Used for protection of sealant beading in fuel tanks

Components

Mix Ratio (by volume)

<table>
<thead>
<tr>
<th>Component</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV117 (Base)</td>
<td>2 parts</td>
</tr>
<tr>
<td>ACT34 (Activator)</td>
<td>1 part</td>
</tr>
<tr>
<td>T74 (Thinner)</td>
<td>to viscosity</td>
</tr>
</tbody>
</table>

NOTE: No thinner is required for brush application

Specifications

CV117 is referenced on:

- ABP4-2128

Product Compatibility

CV117 is compatible with the following primer / topcoat specifications:

- AIMS 04-04-001
- AIMS 04-04-004
- BS2X34A+B

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

Surface Preparation and Pretreatment

Ensure surface in clean, dry and intact using a high performance solvent cleaner, DeSoto® CN20 or Desoclean™ 45 are recommended. Observe recommended overcoating windows.
CV117 Hydraulic Fluid Resistant PU Lacquer

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 achieve recommended dry film thickness.

Theoretical Coverage: (unthinned)
20 m²/Lt @ 25 µm dry film thickness
800 ft²/US gal @ 1 mil dry film thickness
CV117 Hydraulic Fluid Resistant PU Lacquer

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:
CV117 is compatible with all current types of spray equipment and can also be applied by brush applied.

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

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:
Blue tint

Gloss:
>90 units with a 60° gloss meter
CV117 Hydraulic Fluid Resistant PU Lacquer

### Drying Times @ 50% R. H.

<table>
<thead>
<tr>
<th></th>
<th>23°C (73°F)</th>
<th>70°C (158°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry to Tape</td>
<td>6 hours</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Dry to Overcoat</td>
<td>2 to 72 hours</td>
<td></td>
</tr>
<tr>
<td>Full Cure</td>
<td>7 days</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

Note: Drying times can be accelerated by the addition of AC5 accelerator - Refer to separate 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) 470 g/Lt
- CV117 Base Component 570 g/Lt
- ACT34 Activator 270 g/Lt
- T74 Thinner 800 g/Lt

### Flash Point:

- CV117 Base Component 27°C (81°F)
- ACT34 Activator 20°C (68°F)
- T74 Thinner -7°C (19°F)

### Shelf Life:

- CV117 Base Component 24 months in original unopened container
- ACT34 Activator 24 months in original unopened container
- T74 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.*

### 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.*
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:

Asia Pacific
ASC – Australia
Tel 61 (3) 9335 1557
Fax 61 (3) 9335 3490

ASC – Japan
Tel 81 561 35 5200
Fax 81 561 35 5201

ASC – South East Asia
Tel 65 6861 1119
Fax 65 6861 6162

ASC – Suzhou
Tel (86-512) 6661 5858
Fax (86-512) 6661 6868

ASC – Tianjin
Tel (86-022) 2482 8625
Fax (86-022) 2482 8600

Europe and Middle East
ASC – Central Europe
Tel 49 (40) 742 193 10
Fax 49 (40) 742 139 69

ASC – Middle East & India
Tel (971) 4 883 9666
Fax (971) 4 883 9665

ASC – North Europe
Tel 44 (0) 1388 770222
Fax 44 (0) 1388 770288

ASC – South Europe
Tel 33 (0) 235 53 43 71
Fax 33 (0) 235 53 54 44

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

Desoclean and DeSoto are trademarks of PRC-DeSoto International, Inc.

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his use of the product. Seller’s and manufacturer’s sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.