Product Information

D8121 Premium LV Clearcoat 2.1 VOC

Product Description

D8121 Premium LV Clearcoat is a premium quality, high solids clearcoat specifically formulated for today's high production shop. D8121 offers ease of application along with superior gloss and hold out. The exceptionally short bake cycle and reduced baking temperatures provide increased productivity along with reduced operating cost.

D8121 is a compliant clear formulated to meet the VOC limits of the most stringent VOC markets in Southern California.

D8121 is designed for use over Global BC (see data sheet EU-02) and Envirobase (see data sheet EU-130).

Preparation of Substrate

In all cases, wash all surfaces to be painted with soap and water, then apply the appropriate Global cleaner. See EU-134 Global Cleaners bulletin for selection and usage instructions. Ensure that the substrate is thoroughly cleaned and dried both before and after application work.

Wet sand with U.S. 500 – 600 / European P800 – 1200 grade paper or dry sanding with U.S. 400 – 500 / European P600 – 800 grade paper.

Wash off residue and dry thoroughly before recleaning with appropriate Global substrate cleaner. The use of a tack rag is recommended.

Apply D8121 Premium LV Clearcoat Clear over Global BC and Envirobase. See the product data sheet for details on Global BC (EU-02) & Envirobase system (EU-130) applications.
APPLICATION GUIDE:

Mix Ratio:

- **D8121** Premium LV Clearcoat: 3 vols
- **D82XX** Hardener: 1 vol
- Compliant Thinner: 1 vol

**Potlife @ 68°F / 20°C:** 4 hours

Hardener Selection: Compliant Thinner Selection:

- **D8210:** 55° – 75°F / 13° – 24°C
- **D8220:** 75° – 95°F / 24° – 35°C
- **D8230:** 95°F / 35°C & above
- **D8245:** 95°F/35°C – above (Overalls)

**Note:** Smaller areas may require faster thinner.

Additives:

Use **D759** Matting base to flatten **D8121** Clear.

<table>
<thead>
<tr>
<th>Matte Finish</th>
<th>Satin Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>D8121 : D82XX : D87XX : D759</td>
<td>D8121 : D82XX : D87XX : D759</td>
</tr>
<tr>
<td>3 : 1 : 1 : 3</td>
<td>3 : 1 : 1 : 1</td>
</tr>
</tbody>
</table>

Use **D814** Universal Flexibilizer to flexibilize **D8121** Clear.

**D8121 : D82XX : D87XX : SLV814**

<table>
<thead>
<tr>
<th>Matte Finish</th>
<th>Satin Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 : 1 : 1 : 1</td>
<td>2 : 1 : 1 : 1</td>
</tr>
</tbody>
</table>

**Note:** When these products are used in accordance with the recommendations for combination with **D759** or **SLV814**, RTS VOC is compliant with the 7.0 lbs./gal. Specialty Coatings category

Spraygun set-up:

- **Fluid Tip:** 1.3 – 1.5 mm or equivalent
- **Spray Viscosity:** 14 – 15 seconds #2 ZAHN (Signature type) @ 68°F / 20°C

Spray pressure:

- **HVLP at air cap:** 8 – 10 PSI
- **Conventional at spray gun:** 45 – 55 PSI

Number of coats:

- **Apply:** 2 coats
- **Film build per wet coat:** 3.3 – 3.9 mils
- **Dried film build per coat:** 1.2 – 1.4 mils

Flash off at 68°F / 20°C:

- **Between coats:** 5 – 10 minutes
- **Before stoving:** 0 – 5 minutes

Drying times:

- **Dust-free**
  - **68°F / 20°C:** 20 – 40 minutes
  - **140°F / 60°C:** 3 – 4 hours minimum
- **Dry to handle**
  - **68°F / 20°C:** 3 – 4 hours minimum
  - **140°F / 60°C:** 15 – 20 minutes
Drying times continued:

<table>
<thead>
<tr>
<th>Method</th>
<th>Temperature</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tape Time</td>
<td>68°F / 20°C</td>
<td>6 – 8 hours</td>
</tr>
<tr>
<td></td>
<td>140°F / 60°C</td>
<td>1 hour after cool down</td>
</tr>
<tr>
<td>Air Dry</td>
<td>68°F / 20°C</td>
<td>8 hours</td>
</tr>
<tr>
<td></td>
<td>120°F / 50°C</td>
<td>D8210 – 10 minutes</td>
</tr>
<tr>
<td></td>
<td>140°F / 60°C</td>
<td>D8220 – 10 minutes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D8230 – 10 minutes</td>
</tr>
<tr>
<td>IR (Infrared)</td>
<td>Medium Wave</td>
<td>15 minutes</td>
</tr>
<tr>
<td></td>
<td>Short Wave</td>
<td>8 minutes</td>
</tr>
</tbody>
</table>

**Note:** All force dry times are quoted for metal temperature. Additional time must be allowed during force dry to allow metal to reach recommended temperature.

Overcoat/Recoat:

<table>
<thead>
<tr>
<th>Overcoat/Recoat Time</th>
<th>16 hours at 68°F / 20°C or after force dry/cool down. D8121 must be sanded before recoating with primer, color or clear.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade wet</td>
<td>U.S. 500 – 600 / European P800 – 1200</td>
</tr>
<tr>
<td>Grade dry</td>
<td>U.S. 400 – 500 / European P600 – 800</td>
</tr>
<tr>
<td>Overcoat with</td>
<td>Any Global topcoat system</td>
</tr>
<tr>
<td>Polishing</td>
<td>After bake cycle and 1 hr cool down. Use a foam pad with a minor cutting compound to remove any minor imperfections.</td>
</tr>
</tbody>
</table>

Performance Guidelines:

Allow the Global BC Color to flash off for 15 minutes (but no longer than 24 hours) before applying D8121 Clear. The timing will depend on thickness and temperature.

Recoating times will be extended at lower temperatures. Global D8121 may be sanded with 1200 grit paper or finer and polished when hard, to rectify minor imperfections.

**Fading Out - D8121 Clear**

After spot repairing, clean the gun and then spray *D8753 Blend Ease Universal Blending Solvent* around the repaired area to lose the edge and blend the repair into the surrounding panel. Spray starting from the outside of the repair, moving to the center.
Health and Safety:

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

- Before opening the package, be sure all the warning messages on the label and MSDS are understood.
- Improper handling and use, for example, poor spray technique, inadequate engineering controls and/or lack of proper Personal Protective Equipment (PPE), may result in hazardous conditions or injury.
- Follow spray equipment manufacturer’s instructions to prevent personal injury or fire.
- Provide adequate ventilation for health and fire hazard control.
- Follow company policy, product MSDS and respirator manufacturer’s recommendations for selection and proper use of respiratory protection. Be sure employees are adequately trained on the safe use of respirators per company and regulatory requirements.
- Wear appropriate PPE such as eye and skin protection. In the event of injury, see first aid procedures on MSDS.
- Always observe all applicable precautions and follow good safety and hygiene practices.

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 general 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 Automotive Refinish

World Leaders In Automotive Finishes

PPG Industries
19699 Progress Drive
Strongsville, OH 44149
1-800-647-6050

PPG Canada Inc.
2301 Royal Windsor Drive
Mississauga, Ontario L5J 1K5
1-888-310-4762

© 2008 PPG Industries www.ppgrefinish.com Part No. EU-141CA 12/08