DCU2050 is a low VOC clear which offers outstanding chemical and graffiti resistance. The hard, diamond-like film makes this clear an excellent choice for transit fleets, streetcars, light rail units and urban delivery vehicles where pollution, graffiti or chemical exposure may be present. Choice of reducer, accelerator and pot life extender make this clear adaptable to a wide variety of shop conditions. DCU2050 may be applied at 2.8 or 3.5 lbs./gal. VOC.

**Features** | **Advantages** | **Benefits**
---|---|---
*Excellent film hardness* | *More durable finish* | *Better appearance/image*
*Graffiti resistant* | *Easy graffiti removal* | *Lower maintenance costs*
*High solids formulation* | *Higher film build per coat* | *Saves labor costs*

**Compatible Surfaces**
Delta® DCU2050 may be applied over:
- Delta® 2800 DHS 2.8 VOC Polyurethane
- Delta® 3500 DUHS 3.5 VOC Polyurethane
- Delta® DGHS Chemical Resistant Polyurethane 3.5 VOC
- Delta® DGHS Chemical Resistant Polyurethane 4.4 VOC
- Delta® DUHS Basecoat
- Delta® DFHS High Solids Urethane
- Delta® DVHS Fast Dry 2.8 VOC Polyurethane
- Delta® DSS Medium Solids Polyurethane

**DRS Reducers**
<table>
<thead>
<tr>
<th>Reducer</th>
<th>DRS Reducer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reducer - Fast (60-70°F)</td>
<td>DRS1460</td>
</tr>
<tr>
<td>Reducer - Medium (65-80°F)</td>
<td>DRS1470</td>
</tr>
<tr>
<td>Reducer - Slow (75-90°F)</td>
<td>DRS1485</td>
</tr>
<tr>
<td>Reducer - Hot Temperature (85°F and above)</td>
<td>DRS1495</td>
</tr>
<tr>
<td>Retarder/Reducer</td>
<td>DRS1498</td>
</tr>
</tbody>
</table>

**Hardener**
Graffiti Resistant Hardener DCX2051

**Required Additive Options**
<table>
<thead>
<tr>
<th>Additive</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accelerator</td>
<td>DX39</td>
</tr>
<tr>
<td>Extender</td>
<td>DX53</td>
</tr>
</tbody>
</table>
APPLICATION GUIDE

DCU2050

Mixing Ratio 2.8 VOC:

DCU2050 : DCX2051 + DX53

1 part : 1 part + 6 oz. per RTS gal.

Mixing Ratio 3.5 VOC:

DCU2050 : DRS Reducers : DCX2051 : DX39/DX53

1 part : 1/2 part : 1 part + 4 oz. per RTS gal.

High shop temperatures may require use of DX53 instead of DX39 in the 3.5 VOC reduction to prevent solvent popping.

Pot life:

3-4 hours @ 70°F and 50% RH

(High heat and humidity will shorten pot life)

Additives:

Accelerator: No Recommendation
Extender: No Recommendation
Fisheye: No Recommendation
Flex: No Recommendation
Flattening: No Recommendation

Spraygun set-up:

Fluid Tip
1.0 - 1.4 mm for Pressure Feed/HVLP
1.3 - 1.5 mm for Conventional Feed/HVLP

Air Pressure
HVLP at air cap 10 PSI
Conventional at spray gun 45-60 PSI

Consult the Fleet Training Manual Spray Equipment Section for gun set-up requirements.

Minimum number of coats:

2 coats

Total film build per coat:

2.8 VOC
Minimum 1.4 mils 1.0 mils
Maximum 1.8 mils 1.3 mils

3.5 VOC
Minimum 2.1 mils 1.0 mils
Maximum 2.7 mils 1.3 mils

Flash Time at 70°F:

Between coats 10-15 minutes
Before force drying 15-20 minutes
### Test Properties

<table>
<thead>
<tr>
<th></th>
<th>2.8 VOC</th>
<th>3.5 VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC Packaged</td>
<td>2.5 lbs. per U.S. gal.</td>
<td>2.5 lbs. per U.S. gal.</td>
</tr>
<tr>
<td>VOC RTS Applied</td>
<td>2.8 lbs. per U.S. gal.</td>
<td>3.5 lbs. per U.S. gal.</td>
</tr>
<tr>
<td>Volume Solids RTS</td>
<td>64.8%</td>
<td>51.7%</td>
</tr>
<tr>
<td>Square Foot Coverage (RTS US Gallon 100% Transfer Efficiency)</td>
<td>1040 sq. ft.</td>
<td>829 sq. ft.</td>
</tr>
<tr>
<td>Gloss (20 degree)</td>
<td>85%</td>
<td>85%</td>
</tr>
<tr>
<td>Gloss Retention (1000 hrs. QUV)</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Pencil Hardness*</td>
<td>(HB-H)</td>
<td>(HB-H)</td>
</tr>
</tbody>
</table>

*Film properties, including pencil hardness are given where ultimate air cure is reached, usually 7 days.
DCU2050 Graffiti Resistant Clearcoat

INSTRUCTIONS FOR USE

How to Mix:

Mix DCU2050

<table>
<thead>
<tr>
<th>2.8 VOC</th>
<th>DCU2050 : DCX2051 + DX53</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 : 1</td>
<td>+ 6 oz./RTS gal.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.5 VOC</th>
<th>DCU2050 : DRS Reducer : DCX2051 + DX39/DX53</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 : 1/2 : 1</td>
<td>+ 4 oz./RTS gal.</td>
</tr>
</tbody>
</table>

Pot life: 2.8 VOC with DX53 1 hour at 70°F
3.5 VOC with DX53 3-4 hours at 70°F

Air Pressure:

HVLP: 10 PSI at the air cap
Conventional: 45-60 PSI at the gun

Fluid tip: 1.0 - 1.4 mm for Pressure Feed/HVLP
1.4 - 1.6 mm for Conventional Feed/HVLP

Application:

Apply: 2 coats or until hiding is achieved

Dry Time:

Between coats: 10-15 minutes

<table>
<thead>
<tr>
<th>2.8 VOC</th>
<th>Air Dry @ 70°F with DX53</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust 1-1.5 hours</td>
<td></td>
</tr>
<tr>
<td>Tack 4 hours</td>
<td></td>
</tr>
<tr>
<td>Tape 6 hours</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.5 VOC</th>
<th>Air Dry @ 70°F with DX39</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust 20-30 minutes</td>
<td></td>
</tr>
<tr>
<td>Tack 1 hour</td>
<td></td>
</tr>
<tr>
<td>Tape 6 hours</td>
<td></td>
</tr>
</tbody>
</table>

Force Dry with DX39
Flash 10 minutes
30 minutes @ 120°F
10 minutes @ 180°F

For additional information, refer back to the complete FL601

PRODUCTS NEEDED FOR JOB

FL601
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.

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

Emergency Medical or Spill Control Information (304) 843-1300; In Canada (514) 645-1320