Delta® DSS is a fast drying, single stage, medium-solids polyurethane designed to provide outstanding productivity in non-VOC regulated fleet refinishing operations. DSS is out of dust in as little as 30 minutes, and quickly cures to a tough, high gloss finish that withstands severe fleet operating conditions. Choice of catalysts and available accelerator make DSS adaptable to shop conditions. DSS is available in a wide range of solid, metallic, OEM and custom colors. DSS metallics apply evenly without additional cross-coating for metallic pattern control. DSS is produced using high strength DMHS universal mixing toners and DMHS597 converter.

**Features**
- Fast air dry
- Excellent gloss and leveling
- Excellent film properties

**Advantages**
- Speeds assembly and delivery
- Painter friendly
- Withstands severe environments

**Benefits**
- Better shop productivity
- Outstanding final appearance
- Longer repaint cycles

**Compatible Surfaces**
Delta® DSS may be applied over:
- DX1793 Chrome Free Self Etching Primer
- DPH52 Low VOC Primer
- DPU174 High Solids Polyurethane Primer
- DPU166 High Solids Chromate Primer 2.8 VOC Max
- OEM Enamels
- Cured Air Dry Finishes

If sanding prior to the application of DSS, use 240-600 grit wet or dry.

**DRS Reducers**
- Reducer - Fast (60-70°F) DRS1460
- Reducer - Medium (65-80°F) DRS1470
- Reducer - Slow (75-90°F) DRS1485
- Reducer - Hot Temperature (85°F and above) DRS1495

**Hardeners**
- Urethane Hardener DDH525
- Urethane Hardener DDH526
**APPLICATION GUIDE**

**Mixing Ratio:**

<table>
<thead>
<tr>
<th>DSS</th>
<th>DRS Reducer*</th>
<th>DDH525 or DDH526</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 parts</td>
<td>1 part</td>
<td>1 part</td>
</tr>
</tbody>
</table>

*Reduce with DRS1460, DRS1470, DRS1485, DRS1495 Reducer, best suited to shop temperatures.

**Pot life:**

6 hours @ 70°F and 50% RH  
(High heat and humidity will shorten pot life)

**Additives:**

- **Accelerator:** DX39 up to 6 oz./RTS/gal.*
- **Extender:** DX53 up to 6 oz./RTS/gal.*
- **Fisheye:** No Recommendation
- **Flex:** No Recommendation
- **Flattening:** DX595 (See Flattening Ratio)  
  *DX39 and DX53 may be blended to extend pot life and should not exceed 6 oz.

**Flattening Ratio:**

<table>
<thead>
<tr>
<th>Gloss Range</th>
<th>DSS Color</th>
<th>DX595</th>
<th>DDH525 or DDH526</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Gloss 10-20</td>
<td>3 parts</td>
<td>3 parts</td>
<td>1 part</td>
</tr>
<tr>
<td>Semi Gloss 40-65</td>
<td>3 parts</td>
<td>1/4 part</td>
<td>1 part</td>
</tr>
</tbody>
</table>

Pot Life 6 hours @ 70°F and 50% RH

**Spraygun set-up:**

**Fluid Tip**

- 1.0 - 1.4 mm for Pressure Feed/HVLP
- 1.3 - 1.7 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 or until hiding is achieved

**Total film build per coat:**

<table>
<thead>
<tr>
<th></th>
<th>Wet</th>
<th>Dry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum</td>
<td>1.5 mils</td>
<td>.6 mils</td>
</tr>
<tr>
<td>Maximum</td>
<td>2.0 mils</td>
<td>.8 mils</td>
</tr>
</tbody>
</table>

**Flash Time at 70°F:**

- Between coats: 10-15 minutes
- Before force drying: 10 minutes
Drying times:

<table>
<thead>
<tr>
<th></th>
<th>Air Dry @ 70°F</th>
<th>Air Dry @ 70°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without DX39</td>
<td>Dust 1 hour</td>
<td>Dust 35 min.</td>
</tr>
<tr>
<td></td>
<td>Tack 2 hours</td>
<td>Tack 45 min.</td>
</tr>
<tr>
<td></td>
<td>Tape 22 hours</td>
<td>Tape 4 hours</td>
</tr>
<tr>
<td>Force Dry**</td>
<td>Flash 10 min.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30 min. @ 120°F</td>
<td></td>
</tr>
<tr>
<td></td>
<td>15 min. @ 180°F</td>
<td></td>
</tr>
</tbody>
</table>

** Force drying times are for quoted surface temperature. Additional time should be allowed in the force drying schedule to allow surface to reach recommended temperature.

Recoat time: 10 minutes minimum dry and up to 24 hours maximum at 70°F before sanding is required.

Repair time: 8 hours @ 70°F Air Dry
30 minutes after force dried/cool down period.

Polish: 24 hours @ 70°F

Optional Clearcoating: Minimum dry 2 hours @ 70°F up to 24 hours. After 24 hours, sanding is required.

TEST PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Package VOC Actual</td>
<td>2.34-3.56 lbs/gal (280-427 g/l)</td>
</tr>
<tr>
<td>Package VOC Regulatory (Less Water Less Exempts)</td>
<td>2.34-3.56 lbs/gal (280-427 g/l)</td>
</tr>
<tr>
<td>2:1:1 RTS VOC Regulatory (Less Water Less Exempts)</td>
<td>3.85-4.46 lbs/gal (461-534 g/l)</td>
</tr>
<tr>
<td>2:1:1 + 6 oz RTS VOC Regulatory (Less Water Less Exempts)</td>
<td>4.04-4.64 lbs/gal (484 - 556 g/l)</td>
</tr>
<tr>
<td>Low Gloss 3:3:1 RTS VOC Regulatory (Less Water Less Exempts) w/DX595</td>
<td>2.48-3.63 lbs/gal (297-435 g/l)</td>
</tr>
<tr>
<td>Semi-Gloss 3:1/4:1 RTS VOC Regulatory (Less Water Less Exempts) w/DX595</td>
<td>2.62-3.54 lbs/gal (314-424 g/l)</td>
</tr>
<tr>
<td>Volume Solids (RTS)</td>
<td>45% (Avg.)</td>
</tr>
<tr>
<td>Square Foot Coverage</td>
<td>721 sq. ft. (Avg.)</td>
</tr>
<tr>
<td>Gloss (20 degree)</td>
<td>85.2%</td>
</tr>
<tr>
<td>Gloss Retention (1000 hrs. QUV)</td>
<td>85.7</td>
</tr>
<tr>
<td>Pencil Hardness *</td>
<td>H</td>
</tr>
</tbody>
</table>

* Film properties, including pencil hardness are given where ultimate air cure is reached, usually 7 days.
See Material Safety Data Sheet and Labels for additional safety information and handling instructions

Emergency Medical or Spill Control Information (412) 434-4515; In Canada (514) 645-1320

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