DELTA® Chemical Resistant Polyurethane 4.4 VOC

Delta® DGHS is a fast dry, single stage, conventional VOC polyurethane designed to produce a tough, high gloss finish that resists many solvents and chemicals encountered in specialty fleet segments. DGHS is particularly suited for public transit, liquid gas and chemical hauling, airport ground support and cement mixer applications. Choice of catalyst and optional accelerator make DGHS adaptable to shop conditions. DGHS is available in a wide range of solid-only OEM and custom colors. DGHS exhibits excellent graffiti and mar resistance. DGHS is produced using high strength DMHS universal mixing toners and DMHS599 converter.

**Features**

- Excellent hiding power
- Adjustable gloss
- Excellent force dry characteristics
- Excellent film properties

**Advantages**

- Fewer coats
- Versatility
- Faster through-cure
- Withstands severe environments

**Benefits**

- Labor savings
- Less product inventory
- Quicker delivery
- Longer repaint cycles

**Compatible Surfaces**

Delta® DGHS may be applied over:

- DX1793 Chrome Free Self Etching Primer
- DPHS52 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 DGHS, use 240-600 grit wet or dry

**Urethane Hardeners**

<table>
<thead>
<tr>
<th>Hardener</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urethane Hardener</td>
<td>DDH525</td>
</tr>
<tr>
<td>Urethane Hardener</td>
<td>DDH526</td>
</tr>
</tbody>
</table>
Mixing Ratio: DGHS : DDH525 / DDH526
2 parts : 1 part

Pot life: 4 hours @ 70°F and 50% RH
(High heat and humidity will shorten pot life)

Additives:
Accelerator: *DX39 6 oz./RTS gal.
Extender: *DX53 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:
(60° Gloss Meter)

<table>
<thead>
<tr>
<th>Gloss Range</th>
<th>DGHS Color</th>
<th>DX595</th>
<th>DRS Reducer*</th>
<th>DDH525 / DDH526</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Gloss</td>
<td>1 part</td>
<td>1 part</td>
<td>1/4 part</td>
<td>1 part</td>
</tr>
<tr>
<td>10-20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semi Gloss</td>
<td>2 parts</td>
<td>1/2 part</td>
<td>1/4 part</td>
<td>1 part</td>
</tr>
<tr>
<td>40-65</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Pot Life: 4 hours @ 70°F and 50% RH
*Reduce with DRS1460, DRS1470, DRS1485, DRS1495 Reducer, best suited to shop temperatures.

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>.7 mils</td>
</tr>
<tr>
<td>Maximum</td>
<td>2.0 mils</td>
<td>.9 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 without DX39</th>
<th>Air Dry @ 70°F with DX39</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust</td>
<td>1 hour</td>
<td>30 min.</td>
</tr>
<tr>
<td>Tack</td>
<td>2 hours</td>
<td>45 min.</td>
</tr>
<tr>
<td>Tape</td>
<td>24 hours</td>
<td>3.5 hours</td>
</tr>
</tbody>
</table>

### Pot Life:

- **Force Dry**
  - without DX39: Flash 10 min., 30 min. @ 120°F, 10 min. @ 180°F
  - with DX39: Flash 10 min., 30 min. @ 120°F, 10 min. @ 180°F

**Additional time should be allowed in the force drying schedule to allow surface to reach recommended temperature.**

### Recoat time:

- 10-15 minutes minimum dry and up to 48 hours maximum at 70°F before sanding is required.

### Repair time:

- 8 hours @ 70°F Air Dry without DX39
- 6 hours @ 70°F Air Dry with DX39
- 30 minutes after force dried/cool down period.

### Polish:

- 24 hours @ 70°F

### Optional Clearcoating:

- Minimum 2 hours @ 70°F up to 48 hours. After 48 hours, sanding is required.

### TEST PROPERTIES

- **Package VOC Actual**
  - 2.77-4.10 lbs/gal (332-491 g/l)
- **Package VOC Regulatory**
  - 2.77-4.10 lbs/gal (332-491 g/l)
- **(Less Water Less Exempts)**
- **2:1 RTS VOC Regulatory**
  - 3.04-3.93 lbs/gal (364-471 g/l)
- **(Less Water Less Exempts)**
- **2:1 + 6 oz RTS VOC Regulatory**
  - 3.27-4.12 lbs/gal (392 -494 g/l)
- **(Less Water Less Exempts)**
- **Low Gloss 1:1:1/4:1 RTS VOC**
  - 3.19-3.60 lbs/gal (382 -431 g/l)
- **(Less Water Less Exempts) w/DX595**
- **Semi-Gloss 2:1/2:1/4:1 RTS VOC Regulatory**
  - 3.21-3.92 lbs/gal (385 -470 g/l)
- **(Less Water Less Exempts) w/DX595**
- **Volume Solids (RTS)**
  - 45% (Avg.)
- **Square Foot Coverage**
  - 721 sq. ft. (Avg.)
- **(RTS US Gallon 100% Transfer Efficiency)**
- **Gloss (20 degree)**
  - 85.2%
- **Gloss Retention (1000 hrs. QUV):**
  - 85.7
- **Pencil Hardness * H**

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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