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.

### 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
- Retarder/Reducer DRS1498

### Hardener
- Catalyst for DGHS 3.5 VOC DGH350

### Required Additive Options
- Accelerator DX39
- Extender DX53
**APPLICATION GUIDE**

**Mixing Ratio:**

\[
\text{DGHS} : \text{DGH350} : \text{DRS Reducer}^* + \text{DX39 or DX53} \\
3 \text{ parts} : 1 \text{ part} : \frac{1}{4} \text{ part}^* + 6 \text{ oz./RTS gallon}
\]

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

**Pot Life:**

2 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:** DX595 (See Flattening Ratio)

**Flattening Ratio:**

<table>
<thead>
<tr>
<th>Gloss Range</th>
<th>DGHS Color</th>
<th>DX595</th>
<th>DRS Reducer*</th>
<th>DGH350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Gloss</td>
<td>10-20</td>
<td>3 parts</td>
<td>3 parts</td>
<td>1/4 part</td>
</tr>
<tr>
<td>Semi Gloss</td>
<td>40-65</td>
<td>3 parts</td>
<td>1 1/2 parts</td>
<td>1/4 part</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>1.6 mils</td>
<td>.9 mils</td>
</tr>
<tr>
<td>Maximum</td>
<td>2.0 mils</td>
<td>1.2 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 with DX39</th>
<th>Air Dry @ 70°F with DX53</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust</td>
<td>1 hour</td>
<td>1.5 hours</td>
</tr>
<tr>
<td>Tack</td>
<td>1.5 hours</td>
<td>2 hours</td>
</tr>
<tr>
<td>Tape</td>
<td>3 hours</td>
<td>23 hours</td>
</tr>
</tbody>
</table>

### Pot Life:

<table>
<thead>
<tr>
<th></th>
<th>2 hours</th>
<th>3 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Force Dry**</td>
<td>Flash 10 minutes</td>
<td>Flash 10 minutes</td>
</tr>
<tr>
<td>with DX39</td>
<td>30 min. @ 120°F</td>
<td>30 min. @ 120°F</td>
</tr>
<tr>
<td></td>
<td>10 min. @ 180°F</td>
<td>10 min. @ 180°F</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.

### Recoil 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
30 minutes after force dried/cool down period.

### Polish:

24 hours @ 70°F

### Optional Clearcoating:

Minimum dry 8 hours @ 70°F up to 48 hours. After 48 hours, sanding is required.
### Physical Characteristics:

<table>
<thead>
<tr>
<th>DGHS color</th>
<th>Gloss (20 degree)</th>
<th>85.7%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Gloss Retention (1000 hrs. QUV):</td>
<td>67.2%</td>
</tr>
<tr>
<td></td>
<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.*

### RTS Combinations:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>As is</td>
<td>3 : 1 : ¼</td>
<td>3 : 3 : ¼ : 1</td>
<td>3 : 1½ : ¼ : 1</td>
<td></td>
</tr>
<tr>
<td>+ 6 oz RTS gal</td>
<td>Single-Stage Ctg</td>
<td>Single-Stage Ctg</td>
<td>Single-Stage Ctg</td>
<td>Single-Stage Ctg</td>
</tr>
</tbody>
</table>

### Applicable Use Category:

<table>
<thead>
<tr>
<th></th>
<th>Single-Stage Ctg</th>
<th>Single-Stage Ctg</th>
<th>Single-Stage Ctg</th>
<th>Single-Stage Ctg</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Low Gloss)</td>
<td></td>
<td></td>
<td>(Semi Gloss)</td>
<td></td>
</tr>
</tbody>
</table>

### Physical Characteristics:

- **DGHS color**
- **DGHS : DGH350 : DRS : DX39 or DX53**
- **DGHS : DX595 : DRS : DGH350**
- **DGHS : DX595 : DRS : DGH350**

### Physical Characteristics:

- **Gloss (20 degree)**: 85.7%
- **Gloss Retention (1000 hrs. QUV)**: 67.2%
- **Pencil Hardness *:** H

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

### Emergency Medical or Spill Control Information

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

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.

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