

**DELTA® Chemical Resistant  
Polyurethane 4.4 VOC**

# DGHS 4.4

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	Advantages	Benefits
• Excellent hiding power	• Fewer coats	• Labor savings
• Adjustable gloss	• Versatility	• Less product inventory
• Excellent force dry characteristics	• Faster through-cure	• Quicker delivery
• Excellent film properties	• Withstands severe environments	• Longer repaint cycles

**Compatible Surfaces**

Delta® DGHS may be applied over:

- |  |  |
|--|--|
| • DX1793 Chrome Free Self Etching Primer | • DPU166 High Solids Chromate Primer 2.8 VOC Max |
| • DPHS52 Low VOC Primer                  | • OEM Enamels                                    |
| • DPU174 High Solids Polyurethane Primer | • Cured Air Dry Finishes                         |

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

Hardeners	
Urethane Hardener	DDH525
Urethane Hardener	DDH526



# APPLICATION GUIDE **DGHS 4.4**

**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./RTSgal.  
 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)**

**PARTS BY VOLUME**

<b>Gloss Range</b>	<b>DGHS Color</b>	<b>DX595</b>	<b>DRS Reducer*</b>	<b>DDH525 / DDH526</b>
Low Gloss 10-20	1 part	1 part	1/4 part	1 part
Semi Gloss 40-65	2 parts	1/2 part	1/4 part	1 part

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:**

	<b><u>Wet</u></b>	<b><u>Dry</u></b>
Minimum	1.5 mils	.7 mils
Maximum	2.0 mils	.9 mils

**Flash Time at 70°F:**



Between coats 10-15 minutes  
 Before force drying 10 minutes

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**Drying times:****Air Dry @ 70°F  
without DX39**Dust 1 hour  
Tack 2 hours  
Tape 24 hours**Air Dry @ 70°F  
with DX39**Dust 30 min.  
Tack 45 min.  
Tape 3.5 hours**Pot Life:**

4 hours

3 hours

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

\*\* 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.

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**Recoat time:**

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

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**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.

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**Polish:**

24 hours @ 70°F

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**Optional Clearcoating:**

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

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**TEST PROPERTIES**

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

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

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

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