

## DELTA® High Solids Polyurethane

# DUHS

Delta® DUHS is a high solids, single stage, 3.5 VOC polyurethane designed to produce a tough, high gloss finish on larger fleet units or where force-dry capability is desired. Available accelerator and potlife extender make DUHS adaptable to shop conditions. DUHS is available in a wide range of solid, metallic, OEM and custom colors. DUHS gloss may be adjusted by using DX595 Flattening Base. DUHS is produced using high strength DMHS universal mixing toners.

Features	Advantages	Benefits
<ul style="list-style-type: none"> <li>• Excellent hiding power</li> <li>• Adjustable gloss</li> </ul>	<ul style="list-style-type: none"> <li>• Fewer coats</li> <li>• Versatility</li> </ul>	<ul style="list-style-type: none"> <li>• Labor savings</li> <li>• Less product inventory</li> </ul>
<ul style="list-style-type: none"> <li>• Excellent force dry characteristics</li> <li>• Excellent film properties</li> </ul>	<ul style="list-style-type: none"> <li>• Faster through-cure</li> <li>• Withstands severe environments</li> </ul>	<ul style="list-style-type: none"> <li>• Quicker delivery</li> <li>• Longer repaint cycles</li> </ul>

### Compatible Surfaces

Delta® DUHS may be applied over:

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|--|--|
| • 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 DUHS, use 240-600 grit wet or dry.

Hardener	
Urethane Hardener	DDH526
Required Additive	
Accelerator	DX39



# APPLICATION GUIDE

# DUHS

**Mixing Ratio:**



DUHS : DDH526 + DX39  
 2 parts : 1 part + 6 oz./RTS gallon

**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: DX 595 (See Flattening Ratio)

**Flattening Ratio:  
 (60° Gloss Meter)**

**PARTS BY VOLUME**

Gloss Range	DUHS Color	DX595	DRS Reducer*	DDH526
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	2 parts

Pot Life: 2 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

**Minimum number of coats:**



2 coats or until hiding is achieved

**Total film build per coat:**

	Wet	Dry
Minimum	1.5 mils	.8 mils
Maximum	2.0 mils	1.0 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**Dust 1 hour  
Tack 1.5 hours  
Tape 5 hours**Force Dry\*\***Flash 10 minutes  
30 minutes @ 120°F  
10 minutes @ 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:**

before sanding is required.

10-15 minutes minimum dry and up to 7 days maximum at 70°F

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

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**Polish:**

24 hours @ 70°F

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**Optional Clearcoating:**

Minimum dry 2 hours @ 70°F up to 7 days. After 7 days, sanding is required.

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**TEST PROPERTIES**

Package VOC Actual	2.34 - 3.12 lbs/gal (280 - 374 g/l)
Package VOC Regulatory (Less Water Less Exempts)	2.34 - 3.12 lbs/gal (280-374 g/l)
2:1+6 oz RTS VOC Regulatory (Less Water Less Exempts)	2.99 - 3.49 lbs/gal(358 - 418 g/l)
1:1:1/4:1 RTS VOC Regulatory (Less Water Less Exempts)	3.06 - 3.30 lbs/gal(367 - 395 g/l)
Low Gloss w/DX595	
2:1/2:1/4:2 RTS VOC Regulatory (Less Water Less Exempts)	2.73 - 3.44 lbs/gal(327 - 412 g/l)
Low Gloss w/DX595	
Volume Solids (RTS)	50.5% (Avg.)
Square Foot Coverage (RTS U.S. Gallon 100% Transfer Efficiency)	810 sq. ft. (Avg.)
Gloss (20 degree)	85.3%
Gloss Retention (1000 hrs. QUV):	100%
Pencil Hardness*	2B

\*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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