

## 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 is produced using high strength DMHS universal mixing toners.

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

### Compatible Surfaces

Delta® DUHS may be applied over:

- DX1793 Chrome Free Self Etching Primer
- OEM Enamels
- DPHS52 Low VOC Primer
- Cured Air Dry Finishes
- DPU174 High Solids Polyurethane Primer

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

Hardeners	
Urethane Hardener	DDH526
Required Additive	
Accelerator	DX39



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## Mixing Ratio:



<b>DUHS</b>	:	<b>DDH526</b>	+	<b>DX39</b>
<b>2 parts</b>	:	<b>1 part</b>	+	<b>6 oz./RTS gal.</b>

## 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

## Spray Gun 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:

	<u>Wet</u>	<u>Dry</u>
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

## Drying Times: (with DFH535)



	<b>Air Dry @ 70°F 21°C</b>	<b>Force Dry**</b>
Dust	1 hour	Flash 10 minutes
Tack	1.5 hours	30 minutes @ 120°F
Tape	5 hours	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:** 10 – 15 minutes minimum dry and up to 7 days maximum at 70°F (21°C) before sanding is required

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**Repair Time:** 8 hours @ 70°F (21°C) Air Dry  
30 minutes after force dried/cool down period

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**Polish:** 24 hours @ 70°F (21°C)

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**Optional Clearcoating:** Minimum 2 hours @ 70°F (21°C) up to 7 days.  
After 7 days, sanding is required

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## Physical Characteristics:

<b>RTS Combinations:</b>	<b>DUHS</b>	<b>DUHS : DDH526 : DX39</b>
Volume Ratio:	Package color (As is)	2: 1 + 6 oz / RTS gal
Applicable Use Category	Single-Stage Ctg	Single-Stage Ctg
VOC Actual (g/L)	283 -373	359- 417
VOC Actual (lbs/gal)	2.36 - 3.11	3.00 - 3.48
VOC Regulatory (less water less exempt) (g/L)	283 -373	359- 417
VOC Regulatory (less water less exempt) (lbs/gal)	2.36 - 3.11	3.00 - 3.48
Density (g/L)	985 - 1385	986 - 1242
Density (lbs/gal)	8.22 - 11.56	8.23 - 10.36
Volatiles wt. %	25.5 - 36.3	32.9 - 41.3
Water wt. %	0.0	0.0
Exempt wt. %	0.0	0.0
Water vol. %	0.0	0.0
Exempt vol. %	0.0	0.0
Solid Volume %	N/A	50.5% (Avg.)
Sq. Ft. coverage (1 mil per RTS US Gallon 100% transfer efficiency)	N/A	810 Sq. Ft. (Avg.)

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## Health and Safety

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Please refer to Material Safety Data Sheet (MSDS) for full health safety details and storage regulations.

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