

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 DUHS, use 240 - 600 grit wet or dry.

Hardeners	
Urethane Hardener	DDH526
Required Additive	
Accelerator	DX39



APPLICATION GUIDE

DUHS

Mixing Ratio:



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

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:

	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

Drying Times: (with DFH535)



Air Dry @ 70°F 21°C

Force Dry**

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
Repair Time:	8 hours @ 70°F (21°C) Air Dry 30 minutes after force dried/cool down period
Polish:	24 hours @ 70°F (21°C)
Optional Clearcoating:	Minimum 2 hours @ 70°F (21°C) up to 7 days. After 7 days, sanding is required

Physical Characteristics:

RTS Combinations:	DUHS	DUHS : DDH526 : DX39
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.)

Health and Safety

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

EMERGENCY MEDICAL OR SPILL CONTROL INFORMATION (412) 434-4515; IN CANADA (514) 645-1320

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