



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

Compatible Surfaces

Delta® DUHS 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 DUHS, use 240-600 grit wet or dry.

	Hardener
Urethane Hardener	DDH526
	Required Additive
Accelerator	DX39



APPLICATION GUIDE

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

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:

	<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:**Air Dry @ 70°F****Force Dry****

Dust 1 hour
Tack 1.5 hours
Tape 5 hours

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.*

Recoat time:

10 – 15 minutes minimum dry and up to 7 days 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 2 hours @ 70°F up to 7 days. After 7 days, sanding is required.

Physical Characteristics:

RTS Combinations:	DUHS color	DUHS : DDH526 : DX39	DUHS : DX595 : DRX14XX : DDH526	DUHS : DX595 : DRX14XX : DDH526
Volume Ratio:	Package color As is	2 : 1 + 6 oz RTS gal	1 : 1 : ¼ : 1	2 : ½ : ¼ : 2
Applicable Use Category	Single-Stage Ctg	Single-Stage Ctg	Single-Stage Ctg (Low Gloss)	Single-Stage Ctg (Semi Gloss)
VOC Actual (g/L)	283 – 373	359 – 417	368 – 395	373 – 411
VOC Actual (lbs/gal)	2.36 – 3.11	3.00 – 3.48	3.07 – 3.30	3.11 – 3.43
VOC Regulatory (less water less exempt) (g/L)	283 – 373	359 – 417	368 – 395	373 – 411
VOC Regulatory (less water less exempt) (lbs/gal)	2.36 – 3.11	3.00 – 3.48	3.07 – 3.30	3.11 – 3.43
Density (g/L)	985 – 1385	986 – 1242	987 – 1111	983 – 1152
Density (lbs/gal)	8.22 – 11.56	8.23 – 10.36	8.24 – 9.27	8.20 – 9.61
Volatiles wt. %	25.5 – 36.3	32.9 – 41.3	35.2 – 39.6	35.2 – 41.1
Water wt. %	0.0	0.0	0.0	0.0
Exempt wt. %	0.0	0.0	0.0	0.0
Water vol. %	0.0	0.0	0.0	0.0
Exempt vol. %	0.0	0.0	0.0	0.0
Solids vol. %	N/A	50.5% (Avg.)	50.5% (Avg.)	50.5% (Avg.)
Sq. Ft. coverage (1 mil per RTS US gallon, 100% transfer efficiency)	N/A	810 Sq. Ft. (Avg.)	810 Sq. Ft. (Avg.)	810 Sq. Ft. (Avg.)

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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