

DELTA® 2.8 Polyurethane

DHS

Delta® DHS is an ultra high solids, single stage, 2.8 VOC polyurethane finish designed to provide an extremely durable, high gloss finish in fleet operations where 2.8 VOC regulations are in effect and force curing is the preferred method. DHS builds quickly and requires fewer coats to achieve full hiding. DHS is particularly suited for larger units, where multiple coats are not possible and fast air dry is not required. DHS is available in a wide range of solid-only OEM and custom colors. DHS is produced using high strength DMHS universal mixing toners.

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

Compatible Surfaces

Delta® DHS 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 DHS, use 240-600 grit wet or dry

Hardener	
Urethane Hardener	DDH526



APPLICATION GUIDE

Mixing Ratio:



DHS : **DDH526**
 2 parts : 1 part

Pot life:



1 hour @ 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	DHS Color	DX595	DDH526
Low Gloss 10-20	1 part	1 part	1 part
Semi Gloss 40-65	3 parts	1 part	2 parts

Pot Life: 1 hour @ 70°F and 50% RH

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	.9 mils
Maximum	2.0 mils	1.2 mils

Flash Time at 70°F:



Between coats 10-15 minutes
 Before force drying 10 minutes

Drying times:**Air Dry @ 70°F**Dust 1.5 hours
Tack 4 hours
Tape 24 hours**Force Dry****Flash 10 minutes
60 minutes @ 120°F
30 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:16 hours @ 70°F Air Dry
30 minutes after force dried/cool down period.**Polish:**

72 hours @ 70°F

Optional Clearcoating:

Minimum dry 12 hours @ 70°F up to 7 days. After 7 days, sanding is required.

TEST PROPERTIES

Volume Solids (RTS)	59.4% (Avg.)
Square Foot Coverage (RTS U.S. Gallon 100% Transfer Efficiency)	952 sq. ft. (Avg.)
Gloss (20 degree)	87%
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.

RTS Combinations:	DHS color	DHS : DDH526	DHS : DX595 : DDH526	DHS : DX595 : DDH526
Volume Ratio	package (as is)	2 : 1	1 : 1 : 1	3 : 1 : 2
Applicable Use Category	Single-Stage Coating	Single-Stage Coating	Single-Stage Coating	Single-Stage Coating
VOC Actual (g/L)	271 - 290	324 - 337	323 - 329	325 - 333
VOC Actual (lbs/gal)	2.26 - 2.42	2.71 - 2.81	2.70 - 2.75	2.71 -2.78
VOC Regulatory (less water less exempt) (g/L)	271 - 290	324 - 337	323 - 329	325 - 333
VOC Regulatory (less water less exempt) (lbs/gal)	2.26 - 2.42	2.71 - 2.81	2.70 - 2.75	2.71 -2.78
Density (g/L)	1010 - 1478	1004 - 1316	1007 - 1162	1007 - 1240
Density (lbs/gal)	8.43 - 12.33	8.38 - 10.98	8.4 - 9.7	8.4 - 10.35
Volatiles wt. %	18.8 - 27.8	25.0 - 33.0	28.0 -32.5	26.4 - 32.7
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

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.

PPG Industries

Commercial Coatings

We're Everywhere You Look

PPG Industries
19699 Progress Drive
Strongsville, OH 44149
1-800-647-6050

PPG Canada Inc.
2301 Royal Windsor Drive
Mississauga, Ontario L5J 1K5
1-888-310-4762