

DELTA® Fast Dry 2.8 VOC Polyurethane

DVHS

Delta® DVHS is a fast-drying, single stage, 2.8 VOC polyurethane finish designed to maximize productivity in fleet refinishing operations where 2.8 VOC regulations are in effect. Available accelerator and potlife extender make DVHS adaptable to shop conditions. DVHS is out of dust in as little as 35 minutes and quickly cures to a high gloss finish that withstands severe fleet operating conditions. DVHS is available in a wide range of solid-only OEM and custom colors. DVHS is produced using high strength DMHS universal mixing toners and DMHS598 converter.

Features	Advantages	Benefits
<ul style="list-style-type: none"> Fast air dry Excellent gloss and leveling Excellent film properties 	<ul style="list-style-type: none"> Speeds assembly and delivery Painter friendly Withstands severe environments 	<ul style="list-style-type: none"> Better shop productivity Outstanding final appearance Longer repaint cycles

Compatible Surfaces

Delta® DVHS may be applied over:

- | | |
|---|---|
| <ul style="list-style-type: none"> DX1793 Chrome Free Self Etching Primer DPHS52 Low VOC Primer DPU174 High Solids Polyurethane Primer | <ul style="list-style-type: none"> DPU166 High Solids Chromate Primer 2.8 VOC Max OEM Enamels Cured Air Dry Finishes |
|---|---|

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

Hardener	
High Solids Hardener	DFH528
Required Additive	
Accelerator	DX39



APPLICATION GUIDE

DVHS

Mixing Ratio:

DVHS	:	DFH528	+	DX39
4 parts	:	1 part	+	4 oz./RTS gallon

Pot life:

1 hour 30 minutes @ 70°F and 50% RH
(High heat and humidity will shorten pot life)

Additives:**Accelerator:** No Recommendation

Extender: DX53*
Fisheye: No Recommendation
Flex: No Recommendation
Flattening: No Recommendation

*Additional 2 oz. per gallon may be added to extend pot life where 2.8 VOC regulations are not in effect.

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 minutes
Before force drying	10 minutes

Drying times:**Air Dry @ 70°F**

Dust 30 minutes
Tack 2 hours
Tape 12 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 minutes minimum dry and up to 48 hours maximum at 70°F before sanding is required. If baking, after 24 hours 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 4 hours @ 70°F up to 48 hours. After 48 hours, sanding is required.

Test Properties:

Volume Solids (RTS)	61% (Avg.)
Square Foot Coverage (RTS U.S. Gallon 100% Transfer Efficiency)	978 sq. ft. (Avg.)
Gloss (20 degree)	87%
Gloss Retention (1000 hrs. QUV):	100%
Pencil Hardness*	HB

*Film properties, including pencil hardness are given where ultimate air cure is reached, usually 7 days.

RTS Combinations:	DVHS color	DVHS : DFH528 + DX39	DVHS : DFH528 + DX39 + DX53
Volume Ratio:	Package (as is)	4 : 1 + 4 oz/gal	4 : 1 + 4 oz/gal + 2 oz/gal
Applicable Use Category	Single-Stage Coating	Single-Stage Coating	Single-Stage Coating
VOC Actual (g/L)	280 – 362	274 – 337	284 – 346
VOC Actual (lbs/gal)	2.34 – 3.02	2.29 – 2.81	2.37 – 2.89
VOC Regulatory (less water less exempt) (g/L)	280 – 362	274 – 337	284 – 346*
VOC Regulatory (less water less exempt) (lbs/gal)	2.34 – 3.02	2.29 – 2.81	2.37 – 2.89*
Density (g/L)	998 – 1433	1016 – 1354	1015 – 1347
Density (lbs/gal)	8.33 – 11.96	8.48 – 11.30	8.47 – 11.24
Volatiles wt. %	19.6 – 35.7	20.2 – 32.8	21.1 – 33.7
Water wt. %	0.0	0.0	0.0
Exempt wt. %	0.0	0.0	0.0
Water vol. %	0.0	0.0	0.0
Exempt vol. %	0.0	0.0	0.0

* Note for RTS DVHS with DX39 & DX53 to be below 2.84 lbs/gal (340 g/L), package color must be below 2.97 lbs/gal (356 g/L).

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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