



DELTA® Chemical Resistant Polyurethane 3.5 VOC

DGHS 3.5

Delta® DGHS is a fast dry, single stage, conventional VOC polyurethane designed to produce a tough, high gloss finish that resists many solvents and chemicals encountered in specialty fleet segments. DGHS is particularly suited for public transit, liquid gas and chemical hauling, airport ground support and cement mixer applications. Choice of catalyst and optional accelerator make DGHS adaptable to shop conditions. DGHS is available in a wide range of solid-only OEM and custom colors. DGHS exhibits excellent graffiti and mar resistance. DGHS is produced using high strength DMHS universal mixing toners and DMHS599 converter.

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

Compatible Surfaces

Delta® DGHS may be applied over:

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

 DPU166 High Solids Chromate Primer 2.8 VOC Max

• OEM Enamels

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

| | DRS Reducers |
|--|------------------------------|
| Reducer - Fast (60-70°F) | DRS1460 |
| Reducer -Medium (65-80°F) | DRS1470 |
| Reducer - Slow (75-90°F) | DRS1485 |
| Reducer -Hot Temperaturer (85°F and above) | DRS1495 |
| Retarder/Reducer | DRS1498 |
| | Hardener |
| Catalyst for DGHS 3.5 VOC | DGH350 |
| | Required Additive Options |
| Accelerator | DX39 |
| Extender | DX53 |
| | |



FL502 Effective 9/09

DGHS 3.5 APPLICATION GUIDE

| Mixing Ratio: | | |
|---------------|--|--|
| | | |

DGHS: DGH350

DRS Reducer*

DX39 or DX53

3 parts :

1 part

1/4 part*

6 oz./RTS gallon

*Reduce with DRS1460, DRS1470, DRS1485, DRS1495 Reducer, best suited to shop temperatures.

Pot Life:



2 hours @ 70°F and 50% RH

(High heat and humidity will shorten pot life)

Additives:



Accelerator:

Flex:

No Recommendation Extender: No Recommendation Fisheye: No Recommendation No Recommendation

Flattening: DX595 (See Flattening Ratio)

Flattening Ratio: (60° Gloss Meter)

PARTS BY VOLUME

| Gioss Range | DGHS Color | DX595 | DRS Reducer* | DGH350 |
|---------------------|------------|-------------------------------------|----------------------------------|--------|
| Low Gloss 10-20 | 3 parts | 3 parts | ¹ / ₄ part | 1 part |
| Semi Gloss 40-65 | 3 parts | 1 ¹ / ₂ parts | ¹ / ₄ part | 1 part |

Pot Life: 4 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 45-60 PSI Conventional at spray gun

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:

Wet Dry Minimum .9 mils 1.6 mils Maximum 2.0 mils 1.2 mils

Flash Time at 70°F:



Between coats Before force drying

10 - 15 minutes 10 minutes

| Drying times: | Air Dry @ 70°F with DX39 Dust 1 hour Tack 1.5 hours Tape 3 hours | Air Dry @ 70°F with DX53 Dust 1.5 hours Tack 2 hours Tape 23 hours | |
|------------------------|--|--|--|
| Pot Life: | Additional time shoul | 3 hours Force Dry** with DX53 Flash 10 minutes 30 min. @ 120°F 10 min. @ 180°F are for quoted surface temperature. If be allowed in the force drying schedule to the recommended temperature. | |
| Recoat time: | 10 – 15 minutes minimum dry and up to 48 hours 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 8 hours @ 70°F up to 48 hours. After 48 hours, sanding is required. | |

Physical Characteristics:

DGHS color

Gloss (20 degree) 85.7%
Gloss Retention (1000 hrs. QUV): 67.2%
Pencil Hardness * H

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

| RTS Combinations: | DGHS color | DGHS : DGH350 : DRS : DX39 or DX53 | DGHS : DX595 : DRS : DGH350 | DGHS : DX595 : DRS : DGH350 |
|--|-------------------|---------------------------------------|---------------------------------|----------------------------------|
| Volume Ratio: | As is | 3 : 1 : ¼ + 6 oz RTS gal | 3:3:1/4:1 | 3:1½:1/4:1 |
| Applicable Use Category | Single-Stage Ctg | Single-Stage Ctg | Single-Stage Ctg (Low Gloss) | Single-Stage Ctg (Semi Gloss) |
| VOC Actual (g/L) | 332 - 483 | 315 – 417 | 278 – 340 | 280 - 359 |
| VOC Actual (lbs/gal) | 2.77 - 4.03 | 2.63 - 3.48 | 2.32 - 2.84 | 2.34 - 3.00 |
| VOC Regulatory (less water less exempt) (g/L) | 332 – 483 | 315 – 417 | 278 – 340 | 280 – 359 |
| VOC Regulatory (less water less exempt) (lbs/gal | 2.77 – 4.03 I) | 2.63 – 3.48 | 2.32 – 2.84 | 2.34 – 3.00 |
| Density (g/L) | 970 – 1212 | 1005 – 1168 | 1013 – 1112 | 1010 – 1136 |
| Density (lbs/gal) | 8.09 – 10.11 | 8.39 – 9.75 | 8.45 - 9.28 | 8.43 - 9.48 |
| Volatiles wt. % | 31.5 – 49.8 | 29.7 – 41.5 | 26.5 - 33.60 | 26.6 - 35.5 |
| 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 | 51.2 - 58.3 | 56.7 - 66.7 | 57.4 - 66.3 |
| Sq. Ft. coverage (1 mil per RTS US gallon, 100% transfer efficiency) | N/A | 821 – 935 | 909 – 1070 | 921 – 1063 |

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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