



DFT-003

DELFLLEET® Evolution

FDGU

**Single Stage Ultra High Solids
Polyurethane Enamel**

FDGU is a 2.8 VOC (max) polyurethane enamel designed to provide an extremely durable, high gloss finish which builds quickly and requires fewer coats to achieve full hiding. This product is designed for fleet operations where 2.8 VOC regulations are in effect. FDGU is available in a wide range of solid and metallic OEM and customer-specific colors.

Products

FDGU Color	FDGU
High Solids Hardener	F3259
High Solids Hardener - Fast	F3260
Exempt Solvent	F3385
Exempt Solvent – Medium	F3390
Exempt Solvent - Slow	F3395
Fast Dry Additive	F3400
Medium Dry Additive	F3405
Slow Dry Additive	F3410

Compatible Surfaces

FDGU may be applied over:

- Properly cleaned and sanded OEM enamels and cured finishes
- F3950 High Solids Epoxy Primer
- F3960 Pigmented Chrome Etch Primer (**Must** be sealed for optimum performance)
- F3963 Chrome Etch Primer (**Must** be sealed for optimum performance)
- F3966 Non-Chrome Etch Primer (**Must** be sealed for optimum performance)
- F3970 Ultra High Solids Primer
- F3975 Fast Dry Surfacer
- F3980 High Solids Primer
- F3983 High Solids Fast Dry Primer
- F3993/95/97 Conventional Epoxy Primers
- F4921 2.1 VOC Epoxy Primer
- F4935/36/37 High Solids Epoxy Primers
- F4943 2.1 VOC Fast Dry Urethane Sealer

*When sanding prior to the application of FDGU topcoat, use
220 – 320 grit wet or dry*



FDGU

Application Data

Selection of Substrate Cleaner:



ONECHOICE® Commercial CFX Cleaners

Code	Product	Purpose
CFX435LV	Low VOC Cleaner	Compliant cleaner suitable for removing dirt, grease or other contaminants before or during the painting process.
CFX436	Wax & Grease Remover	Suitable for removing dirt, grease or other contaminants before or during the painting process.
CFX437	Heavy Duty Wax & Grease Remover	Used to remove heavy milling oils and grease from bare substrates prior to the painting process.

Mixing Ratio:



FDGU	F3259	F3400/F3405/F3410 per RTS gal.	F33xx Exempt Solvents may be added if needed where exempt solvents are allowed
2	1	6 oz	10%



FDGU	F3260	F3400/F3405/F3410 per RTS gal.	F33xx Exempt Solvents may be added if needed where exempt solvents are allowed
3	1	6 oz	10%

Pot Life @ 70°F (21°C) / 50% RH:



2 to 3 hours
High heat and humidity will shorten pot life.

Spray Viscosity:



#2 ZAHN CUP	#3 ZAHN CUP	4DIN
23–35 seconds	10–20 seconds	20–30 seconds

Spray Gun Set-up:



	HVLP	COMPLIANT
Fluid Tip:	1.4 – 1.6 mm	1.4 – 1.6 mm
Air Pressure:	10 PSI at the cap	45 – 65 PSI
Pressure Pot Set-up:	1.2 – 1.6 mm with 8 – 12 fluid ounces per minute	1.2 – 1.6 mm with 8 – 12 fluid ounces per minute

Number of Coats:



1 cross coat or 2 coats
Allow 15 – 20 minutes flash between coats if, applying 2 coats

Flash Off @ 70°F (21°C) before force dry:



0 – 10 minutes

FDGU

Application Data (continued)

Dry Times:



Dust-Free:
70°F (21°C) 1 hour



Tape Time:
70°F (21°C) 5 hours
140°F (60°C) 30 minutes



Overcoat / Recoat:
70°F (21°C) 30 minutes to 8 hours
(Max before sanding is required)

* Force dry times are for quoted metal temperature. Additional time should be allowed in the force-drying schedule to allow metal to reach recommended temperature.

Film Build:

	Wet (per coat)	Dry (total)
Minimum	2.4 mils	1.5 mils
Maximum	6.0 mils	4.0 mils

Theoretical Coverage:

943 sq. ft. (Avg.)

Theoretical coverage in sq. ft. /US gal. Ready-to-spray (RTS), giving 1 mil. (25µm) dry film thickness (Assuming 100% Transfer Efficiency).

Performance Comments:

Wash and Etch primers must be sealed before applying topcoat for optimum performance.

Physical Characteristics:

Total Solids By Weight (FDGU color):	59.6 – 85.0%
Total Solids By Volume (FDGU color):	53.5 – 71.5%
Total Solids By Weight (RTS):	54.0 – 78.8%
Total Solids By Volume (RTS):	51.7 – 69.0%

RTS Combinations	FDGU color	FDGU: F3260 + F34XX	FDGU: F3260 + F34XX + F3385	FDGU: F3259 + F34XX	FDGU: F3259 + F34XX + F3385
Volume Ratio	Package (as is)	3 : 1 + 6 oz/gal	3 : 1 + 6 oz/gal +10%	2 : 1 + 6 oz/gal	2 : 1 + 6 oz/gal + 10%
Applicable Use Category	Single-Stage Ctg	Single-Stage Ctg	Single-Stage Ctg	Single-Stage Ctg	Single-Stage Ctg
VOC Actual	229 - 351 (g/L) 1.91 - 2.93 (lbs/gal)	279 - 336 (g/L) 2.33 - 2.80 (lbs/gal)	262 - 301 (g/L) 2.19 - 2.51 (lbs/gal)	219 - 266 (g/L) 1.83 - 2.22 (lbs/gal)	199 - 242 (g/L) 1.66 - 2.02 (lbs/gal)
VOC Regulatory (less water less exempt)	229 - 351 (g/L) 1.91 - 2.93 (lbs/gal)	279 - 336 (g/L) 2.33 - 2.80 (lbs/gal)	289 - 336 (g/L) 2.41 - 2.80 (lbs/gal)	252 - 336 (g/L) 2.10 - 2.80 (lbs/gal)	252 - 336 (g/L) 2.10 - 2.80 (lbs/gal)
Density	1020 -1609 (g/L) 8.51 - 13.43 (lbs/gal)	1033 - 1316 (g/L) 8.62 - 10.98 (lbs/gal)	1044 - 1221 (g/L) 8.65 - 11.85 (lbs/gal)	1086 - 1462 (g/L) 9.06 - 12.20 (lbs/gal)	1085 - 1426 (g/L) 9.05 - 11.9 (lbs/gal)
Volatiles wt.	15.0 - 40.4 %	21.2 - 36.1 %	24.4 - 42.0 %	37.3 - 43.9 %	32.5 - 48.9 %
Water wt.	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Exempt wt.	0.0 - 40.4 %	0.0 - 36.1 %	6.8 - 42.0 %	11.9 - 43.9 %	17.9 - 48.9 %
Water vol.	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Exempt vol.	0.0 - 46.5 %	0.0 - 41.7 %	9.1- 46.9 %	13.0 - 46.7 %	20.8 - 51.5 %

Health and Safety:

Safety Data Sheets (SDS) for the PPG products mentioned in this publication are available through www.ppgcommercialcoatings.com (Safety, SDS Search) or your PPG Distributor.

For additional information regarding this product, see the SDS and LABEL information.

EMERGENCY MEDICAL OR SPILL CONTROL INFORMATION (412) 434-4515; IN CANADA (514) 645-1320 AND IN MEXICO 01-800-00-21-400.

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