



### Delfleet® 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–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
- F3993/94/95 Conventional Epoxy Primers

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

# FDGU

## Application Data

### Selection of Substrate Cleaner:



Code	Product	Purpose
DX436	Wax & Grease Remover	Suitable for removing dirt, grease or other contaminants before or during the painting process.
DX437	Heavy Duty Wax & Grease Remover	Used to remove heavy milling oils and grease from bare substrates prior to the painting process.

### Mixing Ratio:



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

### Pot Life @ 70°F / 50% RH:



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

### Spray Viscosity:



#2 ZAHN CUP	#3 ZAHN CUP	4DIN	6DIN	8DIN
25–35 seconds	10–20 seconds	20–30 seconds	5–15 seconds	Up to 10 seconds

### Spray Gun Set-up:



	HVLP	CONVENTIONAL
<b>Fluid Tip:</b>	1.4–1.6 mm	1.4–1.6 mm
<b>Air Pressure:</b>	10 PSI at the cap	45–65 PSI
<b>Pressure Pot Set-up:</b>	1.2–1.6 mm with 8–12 fluid ounces/min.	1.2–1.6 mm with 8–12 fluid ounces/min.

### Number of Coats:



1 cross coat or 2 coats  
*Allowing 15–20 minutes between coats if applying 2 coats*

### Flash Off



0–10 minutes

### Dry Times:



<b>Dust-free:</b>	1 hour
<b>Tape Time:</b>	
68°F (20°C)	5 hours
140°F (60°C)	30 minutes
<b>Overcoat/Recoat</b>	30 minutes–8 hours (Max before sanding is required.)
70°F (21°C):	



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

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**Total Film Build:  
@ 20°C before stoving:**

	Wet	Dry
<b>Minimum</b>	2.4 mils.	1.5 mils.
<b>Maximum</b>		4.0 mils.

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**Theoretical Coverage:**

952 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).*

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**Performance Comments:**

Wash and etch primers must be sealed before applying topcoats for optimum performance.

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**Physical Characteristics:**

<b>Total Solids By Weight (RTS):</b>	38.7 – 68.2%		
<b>Total Solids By Volume (RTS):</b>	61.6%		
<b>RTS Combinations:</b>	<b>FDGU color</b>	<b>FDGU : F3260 + F34XX</b>	<b>FDGU : F3260 + F34XX + F3385</b>
Volume Ratio:	Package (as is)	3 : 1 + 6 oz/gal	3 : 1 + 6 oz/gal + 10%
Applicable Use Category	Single-Stage Coating	Single-Stage Coating	Single-Stage Coating
VOC Actual (g/L)	159 - 350	196 -332	178 - 302
VOC Actual (lbs/gal)	1.33 - 2.92	1.63 - 2.77	1.49 - 2.52
VOC Regulatory (less water less exempt) (g/L)	265 - 357	273 - 338	273 - 338
VOC Regulatory (less water less exempt) (lbs/gal)	2.21 - 2.98	2.28 - 2.82	2.28 - 2.82
Density (g/L)	1023 -1295	1041 - 1236	1044 - 1221
Density (lbs/gal)	8.54 - 10.81	8.69 - 10.31	8.71 - 10.19
Volatiles wt. %	33.5 - 69.9	31.8 - 57.4	37.2 - 61.3
Water wt. %	0.0	0.0	0.0
Exempt wt. %	0.0 -54.9	0.0 - 39.1	9.3 - 44.6
Water vol. %	0.0	0.0	0.0
Exempt vol. %	0.0 - 54.9	0.0 - 39.4	9.1 - 44.9

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**Health and Safety:**

Please refer to Material Data Safety Sheets (MSDS) for full health safety details and storage regulations.

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**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.**

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