

DFE-05

Urethane Clear

ESC600

DELFLEET ESSENTIAL® ESC600 is a cost-effective, 2-component, acrylic urethane clearcoat that delivers good gloss, DOI and buffability, while providing an added layer of durability and protection from the environment. ESC600 has a VOC of 4.1 lbs/gallon and uses the same hardeners and activators as the current ESSS product line. ESC600 may be used as an integrating clear in *Delfleet Essential* ESSS Single Stage Color.

Compatible Surfaces

ESC600 may be applied over:

- · ESSS Basecoat Color
- ESSS Single Stage Color

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.



Application Guide

Preparation:



Allow the ESSS Basecoat Color to dry a minimum of 30 minutes, up to a maximum of 72 hours, before clearcoating.



Allow the ESSS Single Stage Color to dry a minimum of 30 minutes, up to a maximum of 72 hours before clearcoating. When specific activators are used in the color coat, the clear must be applied before the maximum time shown below:

ESSS Single Stage Color

•	ESX500/ESX510	3 hours
•	ESX520	16 hours
•	ESX530	72 hours
•	ESX540	Do not Clearcoat

If the maximum time has expired the color must be sanded before the clear is applied.

Mixing Ratio:



6: ESC600 1: ESH200 1: ESX5XX

Pot Life:



Minimum Pot Life is 4 hours

Pot life of this product is variable depending on temperature and on activator choice.



RTS Viscosity 16-20 seconds on #2 EZ Zahn

NOTE: Heat shortens pot life of this material.

Additives:



N/A

Spray Gun Setup:		HVLP	COMPLIANT
**	Fluid Tip	1.1- 1.4 mm or equivalent	1.3 - 1.7 mm or equivalent
	Air Pressure	10 PSI at the air cap	35-45 PSI at the spray gun

Consult the Fleet Training Manual Spray Equipment section for additional gun set-up requirements.

Pressure Pot Setup: Starting setup, adjust from here for best results

3.4		HVLP	COMPLIANT	
00	Fluid Tip	1.0 - 1.4 mm	1.0 - 1.4 mm	
	Fluid	8-12 fluid	8-12 fluid	-
	Delivery	ounces per minute	ounces per minute	

Number of Coats:



2 - 3 coats as an overlay clear

1 – 2 coats as an integrating clear in ESSS Single Stage Color only

Film Build:	Wet Film (per coat)	Dry Film (total)
Minimum	2.25 mils	1.5 mils*
Maximum	3.75 mils	2.5 mils

* Although not necessary to do, minimum film build is after sanding and buffing operation, if performed.

Flash Time:



Between coats 5 - 10 minutes @ 70°F (21°C)

Dry Times:



To Touch: 15 - 30 minutes @ 70°F (21°C)

> 45 minutes to 2 hours @ 70°F (21°C)



To Tape: 1.5 - 2 hours @ 70°F (21°C)



30 minutes @ 140°F (60°C) Force Dry:



IR (Infrared): Short Wave 12-15 minutes



Polishing 16 hours @ 70°F (21°C) Air Dry: Force Dry: 2 hours (after cool down)

To Repair / Recoat:

To Handle:

8 hours to overnight before

sanding

After 8 hours, sand ESC600 with 600 grit (wet or dry) before applying another coat

Note: 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.

Application Guide (continued)

Clearcoating Option as an integrating clear in Single Stage Color:

Ready-to-spray ESC600 may be mixed (up to 33% by volume) with ready-to-spray ESSS Single Stage Color prior to applying the final coat of color.

The ready-to-spray VOC of the final paint, when adding up to the maximum 33% by volume of ready-to-spray ESC600 to ready-to-spray ESSS Single Stage Color is less than 3.5 lbs/gal.

Note: Use of ESC600 as an integrating clear in metallic ESSS Single Stage Colors may result in a color shift.

Test Properties:

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	Clear:	Integrating Clear*:
Application	(6:1:1)	ESSS Single Stage Color RTS + 25-33% ESC600 RTS
Package VOC Actual	3.57 lbs per U.S. gal. (428 g/L)	3.57 lbs / U.S. gal. (428 g/L)
Package VOC Regulatory (Less Water Less Exempts)	4.48 lbs per U.S. gal. (537 g/L)	4.48 lbs / U.S. gal. (537 g/L)
RTS VOC Regulatory (Less Water Less Exempts)	4.07 lbs per U.S. gal. (488 g/L)	3.00-3.10 lbs / U.S. gal. (359-371 g/L)
Volume Solids (RTS)	33.3%	42.0-45.0%
Square Foot Coverage applied 6: 1: 1 (RTS US Gal 100% Transfer Efficiency)	534 sq. ft. @1 mil	674-722 sq. ft. @1 mil

*Compliant in national rule markets. Not compliant as an integrating clear in low VOC markets with CARB SCM based rules that require 2.1 lbs./gal clearcoats.

The contents of this package must be blended with other components before the product can be used. Before opening the packages, be sure you understand the warning messages on the labels of all components, since the mixture will have the hazards of all its parts. Improper spray technique may result in a hazardous condition. Follow spray equipment manufacturer's instructions to prevent personal injury or fire. Follow directions for respirator use. Wear eye and skin protection. Observe all applicable precautions.

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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