

DFE-21

Polyurethane Basecoat

ESSS Basecoat

ESSS Basecoat is an easy-to-use product designed to be mixed from ESSS color formulas, offering a wide array of solid, metallic, and pearl colors. VOC is below 3.5 RTS and is designed for use with ESC621 clearcoat. Essential basecoat can be used over all properly prepared OEM finishes, cured air-dried finishes, and DELFLEET ESSENTIAL® primers listed below.

Additional Products

- Essential Color ESSS
- Hardener ESH210
- Basecoat Converter ESB800

Compatible Surfaces

ESSS Basecoat may be applied over:

- Properly cleaned and sanded OEM enamels and cured finishes
- ESU410 Polyurethane Primer
- ESU420/ESU421 3.5 Epoxy Primer White/Gray
- ESU430 Epoxy Primer
- ESU440 3.5 Primer Surfacer
- ESU460/ESU461/ESU462 4.6 Epoxy Primer Gray/White/Black
- ESU470 2.1 Epoxy Primer
- ESU480/ESU481/ESU482 2.1 VOC Epoxy Primer Gray/White/Black

When sanding prior to the application of ESSS basecoat, use 320 grit wet or dry.

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:



 If painting over a cured substrate, final clean area with CFX435LV or CFX436 cleaner.



- Sand substrates, Sand with 180 240 grit on old finishes and body filler, then re-clean with CFX436 or CFX437.
- Prime substrates immediately after cleaning

Mixing Ratio:



- **ESSS**
- ESB800 1
- ESH210

Hand shake ESB800 before addition

Pot Life:



1.5 hours @ 70°F(21°C) / 50% RH

NOTE: High heat and humidity will shorten pot life

Spray Viscosity:



#2 Zahn Cup 15-30 seconds

Additives:



N/A

Spray gu	ın Set-up:	HVLP	Conventional
	Fluid Tip	1.3 - 1.7 mm	1.3 - 1.7 mm
	Air Pressure	8 - 10 PSI at the cap	50 - 60 PSI

Pressure Pot Set-up:

St

starting se	arting setup, adjust from here for best results			
		HVLP	Conventional	
	Fluid Tip	1.0 - 1.4 mm	1.0 - 1.4 mm	



Fluid	8 - 12 fluid	8 - 12 fluid
Delivery	ounces per	ounces per
	minute	minute

Number of Coats:



Spray to hiding 10 minute flash between coats

Film Build:	Wet Film	Dry Film
	(per coat)	(Total)
Minimum Maximum	2.0 - 4.0 mils	5.0 mils

Flash Times:



10 - 15 minutes @ 70°F (21°C) before Force Dry

Dry Times



To Touch: 15 - 30 minutes @ 70°F (21°C) To Handle: 1 - 1 ½ hours @ 70°F (21°C)



2 hours @ 70°F (21°C) Tape Free: 30 minutes @ 140°F (60°C) Flash prior to 5 - 10 minutes @ 70°F (21°C) bake:



Force Dry: 30 minutes @ 140°F (60°C)



To Recoat / Clearcoat within 1 hour after Clearcoat:

cool down.

Minimum: 30 minutes Maximum: 72 hours @ 70°F

(21°C)

After 3 days (72 hours), scuff the basecoat lightly and reapply basecoat if necessary prior to clearcoating.

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.

Physical Characteristics: (Color Dependent)

Total Solids By Weight (RTS) 36.2% - 58.7% Total Solids By Volume (RTS) 33.3% - 41.6%

Pounds VOC per Gallon Solids 4.97 - 5.26 lbs

Theoretical Coverage: (Color Dependent) 534 - 667 sq. ft.

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

Application Guide Continued

RTS Combinations:	ESSS color	ESSS: ESB800: ESH210
/olume Ratio:	Package (as is)	2:1:1
Applicable Use Category	Color Coating	Color Coating
/OC Actual (g/L)	248 - 317	206 - 248
/OC Actual (lbs/gal)	2.07 - 2.65	1.72 - 2.07
/OC Regulatory (less water less exempt) (g/L)	317 - 337	346 - 364
/OC Regulatory (less water less exempt) (lbs/gal)	2.65 - 2.81	2.89 - 3.04
Density (g/L)	968 - 1812	1093 - 1522
Density (lbs/gal)	8.08 - 15.12	9.12 - 12.70
olatiles wt. %	17.5 - 46.7	41.3 - 63.8
Vater wt. %	0.0	0.0 - 0.2
exempt wt. %	0.0 - 22.2	25.0 - 44.9
Vater vol. %	0.0	0.0 - 0.2
Exempt vol. %	0.0 - 26.2	28.4 - 41.8

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.

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 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.



PPG Industries Commercial Coatings 19699 Progress Drive Strongsville, OH 44149 1-800-647-6050 PPG Canada Inc. Commercial Coatings 2301 Royal Windsor Drive, Unit #6 Mississauga, Ontario L5J 1K5 1-888-310-4762