

Single Stage Polyurethane Enamel

ESSS

ESSS Single Stage Polyurethane Enamel is a two-component topcoat designed to offer good gloss with a wide array of solid and metallic colors. It is available as a 2.8 VOC topcoat and can be used over all properly prepared OEM finishes, cured air-dried finishes, as well as any *Delfleet Essential* Primer.

Additional Products

• Essential Color	ESSS
• Hardener	ESH200
• Fast Activator	ESX500
• Standard Activator	ESX510
• Slow Activator	ESX520
• Very Slow Activator	ESX530

Compatible Surfaces

ESSS may be applied over:

- Properly cleaned and sanded OEM enamels and cured finishes
- ESU400
- ESU410
- ESU420/ESU421
- ESU430

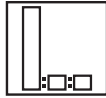
When sanding prior to the application of ESSS topcoat, use 220 – 320 grit wet or dry.

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.
DX438	Compliant Cleaner	For use removing dirt, grease and other contaminants in VOC regulated areas.

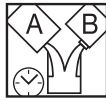
Application Guide

Mixing Ratio:



6 : ESSS
1 : ESH200
1 : ESX500/510/520/530

Pot Life:



2 hours at 70°F (21°C) / 50% RH

NOTE: High heat and humidity will shorten pot life.

Pressure Pot Setup: HVLP



1.0 – 1.4 mm
with 8 – 12 fluid
ounces per minute

Conventional

1.0 – 1.4 mm
with 8 – 12 fluid
ounces per minute

Flash Off:



5 – 10 minutes at 70°F (21°C) before stoving

Total Film Build:

	Wet	Dry
Minimum	2.0 – 4.0 mils per coat	2.0 – 4.0 mils total DFT

Theoretical Coverage:

765 - 860 sq. ft. (Color formula dependent)
Theoretical coverage in sq. ft./U.S. gal.
Ready-to-spray (RTS), giving 1 mil.
(25µm) dry film thickness
(Assuming 100% Transfer Efficiency)

Spray Viscosity:



#2 Zahn Cup
20 – 30 seconds

Spray Gun Setup:



	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

Number of Coats:



Two coats with 10 minute flash
between coats.

Dry Times:



Dust-free:	30 – 60 minutes
Tape Time:	2 – 4 hours at 68°F (20°C) 30 minutes at 140°F (60°C)
Overcoat/Recoat:	72 hours at 70°F (21°C)

Performance Comments:

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

Physical Characteristics:

VOC (Packaged): ESSS	2.81 lbs./gal. (Maximum)
VOC (RTS)	2.80 lbs./gal.
Total Solids By Weight (RTS)	53.0% – 65.0%
Total Solids By Volume (RTS)	47.0% – 53.0%

Health and Safety

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

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 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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We're Everywhere You Look

PPG Industries

19699 Progress Drive
Strongsville, Ohio 44149
(800) 970-2283

PPG Canada Inc.

2301 Royal Windsor Drive
Mississauga, Ontario L5J 1K5