

Single Stage Slow Hardener Option

ESSS

For hot temperature applications or when longer melt-in times are required, ESU419 may be used as a slower hardener option in ESSS single stage. It may be used over any of the *Delfleet Essential* primers.

Application Guide

Refer to the ESSS Single Stage Polyurethane Enamel **Technical Data Sheet DFE-20** for additional information on substrate preparation, spray equipment set up, and other information regarding the use and application of ESSS Color.

Mixing Ratio:

Note – Mixing ratio with ESU419 Hardener is different than ESSS Color with conventional hardener.



5 : ESSS Color
1 : ESU419 Slow Hardener
1 : ESX530 or ESX540 Activator

Up to an additional part of ESR300 or ESR310 can be used to thin product and increase potlife while maintaining 2.8 VOC.

Dry Times:



Dust Free: 60 – 150 minutes @ 70°F (21°C)
Tape Time: 5 – 7 hours @ 70°F (21°C)
Overcoat/Recoat: 72 hours @ 70°F (21°C)

Data obtained using ESX540

Pot Life:



With ESU419 : 3 - 4 hours
@ 70°F (21°C) / 50% RH
NOTE: High heat and humidity will shorten pot life

Data obtained using ESX540

Theoretical Coverage:

741- 970 sq. ft. (color formula dependent)
Theoretical coverage in sq. ft. per US gal. Ready-to-spray (RTS) giving 1mil (25µm) dry film thickness (assuming 100% transfer efficiency).

Physical Characteristics:

Total Solids By Weight (RTS) 51.7% - 77.7%
Total Solids By Volume (RTS) 46.2% - 60.5%

RTS Combinations:

| | ESSS color | ESSS : ESU419 : ESX530 OR ESX540 |
|---------------------------------------------------|----------------------|----------------------------------|
| Volume Ratio | Package (as is) | 5 : 1 : 1 |
| Applicable Use Category | Single-Stage Coating | Single-Stage Coating |
| VOC Actual (g/L) | 248 - 317 | 204 - 282 |
| VOC Actual (lbs/gal) | 2.07 - 2.65 | 1.70 - 2.35 |
| VOC Regulatory (less water less exempt) (g/L) | 317 - 337 | 285 - 305 |
| VOC Regulatory (less water less exempt) (lbs/gal) | 2.65 - 2.81 | 2.38 - 2.55 |
| Density (g/L) | 968 - 1268 | 1011 - 1633 |
| Density (lbs/gal) | 8.08 - 15.12 | 8.44 - 13.63 |
| Volatiles wt. % | 17.5 - 46.7 | 22.3 - 48.3 |
| Water wt. % | 0.0 | 0.0 - 0.3 |
| Exempt wt. % | 0.0 - 22.2 | 4.8 - 28.1 |
| Water vol. % | 0.0 | 0.0 - 0.4 |
| Exempt vol. % | 0.0 - 26.2 | 5.8 - 29.7 |

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 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 are 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