

DFE-04

3.5 VOC Epoxy Primer - White/Gray

ESU420/421

ESU420/421 Epoxy Primers combine the speed and versatility of conventional solids Epoxy Primers with 3.5 VOC compliance. These products have been formulated to provide corrosion protection over properly prepared substrates. ESU Epoxy Primers are available in white (420) and gray (421).

Additional Products		Compatible Surfaces	
Hardener for ESU420	ESU429	ESU420/ESU421 may be applied over:	
and ESU421		 Properly prepared steel 	
Reducer for ESU420	ESR300 Fast ESR310 Medium	 Properly prepared aluminum 	
and ESU421		 Properly prepared galvanized 	
		 Properly prepared fiberglass 	
		 Properly prepared OE Enamel Finishes 	
		If sanding bare metal prior to application of	
		ESU420/ESU421, use 180-240 grit wet or dry. Sand old	
		finishes with 320-400 grit wet or dry.	
Selection of Substi	ate 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.	



Application Guide

Preparation:



 Wash the area to be painted with soap and water, and then clean with DX436 or DX437 wax and grease remover.



 Sand substrates, then re-clean with DX436 or DX437.



 Prime aluminum, stainless and carbon steel immediately after cleaning.

Mixing Ratio:



3: ESU420/ESU421

1 : ESU429

1: ESR300/ESR310

Pot Life:



6-8 hours after mixing at 77°F (25°C). Mix only enough material that can be used in 6-8 hours.

NOTE: Heat shortens pot life of this material.

Additives:



N/A

opray Gun set-up:		HVLP	Conventional
	Fluid Tip	1.2 – 1.4 mm	1.4 – 1.6 mm
****		or equivalent	
	Air Pressure	8 – 10 PSI at	40 - 50 PSI at
		the cap	spray gun

Number of Coats:



1-2 coats

Total Film Build Per Coat	Wet	Dry
Minimum	3.5 mils	1.2 mils
Maximum 5.5 mils 2.0 mils	5.5 mils	2.0 mils

Flash Time at 70°F (21°C):



Between coats 10-15 minutes

Dry Times:



To Touch: 15 minutes Air Dry at 70°F (21°C)

To Handle: 30 minutes Dry: 4 hours

Force Dry: 30 minutes at 140°F (60°C)
To Topcoat: 1 hour at 70°F (21°C)

After 4 days, sand ESU420/ESU421 with 400 grit (wet or dry) before proceeding to the next undercoat or topcoat.

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:	ESU420 White		
Color.	ESU421 Gray		
RTS Combinations:	ESU420/1:ESU429 :ESR3X0		
Volume Ratio:	3:1:1		
Applicable Use Category	Primer Sealer		
VOC Actual (g/L)	235		
VOC Actual (lbs/gal)	1.96		
VOC Regulatory	409		
(less water less exempt) (g/L)			
VOC Regulatory	3.41		
(less water less exempt) (lbs/gal)			
Density (g/L)	1304		
Density (lbs/gal)	10.88		
Volatiles wt. %	54.2		
Water wt. %	0.0		
Exempt wt. %	36.2		
Water vol. %	0.0		
Exempt vol. %	42.7		
Solids vol. %	29.6		
Theoretical sq. ft. coverage (per			
RTS U.S gallon, 1 mil at 100%	475		
transfer efficiency)			

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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