

EX-2C Clear 117 LG (Lo Gloss)

Technical Data Sheet (TDS)

Product Description

EX-2C Clear 117 LG is a low VOC two component, highly cross-linked, high performance polyester polyurethane clear coating. EX-2C Clear 117 LG is a low gloss clear coating designed to give extra protection to solid, metallic and pearl colors.

Product features:

- Excellent UV stability
- Excellent chemical resistance
- Excellent abrasion resistance
- Lo gloss
- VOC Compliant

Recommended Uses

EX-2C Clear 117 LG is intended for industrial applications; either new build or maintenance EX-2C Clear 117 LG is suitable for application on EX-2C Topcoat.

Industries:

- Oilfield & Energy Services
 - Well Service vehicles
 - Drilling
 - Tanks
- Cranes and Construction Equipment
- Waste and Recycling Industry
 - Garbage Trucks
- Trailers and Rolling Stock
- Marine (above the water line)

Mix Ratio

Lo Gloss:

1 part by volume of component A **[FUA0463]**
1 part by volume of component B **[FUB0463]**

The recommended temperature when mixed is 68-77°F (20-25°C).

Contact your Endura Representative if you have any questions.

Product Characteristics

Gloss:	
Lo Gloss	10 - 20 GU at 60°
Volume Solids Mixed: (Unreduced) FUA0463: FUB0463 (1:1)	38% ± 1%
Pot Life: (77°F (25°C) and 50% RH)	8-10 Hours
Note: Pot life is reduced when Super Catalyst II is used	
VOC Mixed (Unreduced): EPA Method 24 FUA0463: FUB0463 (1:1)	220.3 g/l 1.839 lb /gal
Shelf Life:	
Component A	3 years
Component B	2 years
For unopened product (77°F (25°C))	

Surface Preparation

EX-2C Clear 117 LG can be applied on EX-2C Topcoat colors without sanding during their topcoat window.

Ensure that surfaces to be clear coated are free of flaws, surface contaminants and other surface imperfections.

If the EX-2C Topcoat has been allowed to cure longer than 24 hours, sanding will be required to achieve inter-coat adhesion. Sand topcoat lightly with 600 grit sandpaper or 3M white scuff pads.

Note:

- **Do not sand metallic or pearl colors.**
- **Do not mix EX-2C Clear 117 LG with metallic color for final coat.**
- **Do not mix clear into final color coat on solid colors.** This may cause matching and repeatability issues. Ensure opacity is achieved in previous coat.

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Application Method

EX-2C Clear 117 LG can be applied using most spray painting systems.

After application of EX-2C Topcoat wait for the following times before application of EX-2C Clear 117 LG:

Solid Colors	Metallic Colors
3-18 Hours	6-18 hours

Apply two wet coats of EX-2C Clear 117 LG at approximately 1.5 - 2.5 mils per coat. Allow 5 - 20 minutes flash time between coats.

The use of Super Catalyst II with Endura topcoats will accelerate drying times.

Spray Gun Setup

Feed Type	Fluid Tip	Application Pressures (heel of gun)	Fluid Delivery
Siphon Feed	1.6-1.8 mm	40-50 psi	
Gravity Feed	1.3-1.8 mm	30-40 psi	
Pressure Feed	1.0-1.4 mm	55-65 psi	10-14 oz/min
Air Assist Airless	9-13 Thou	1,000-1,800 psi	
Airless	11-13 Thou	1,700-3,000 psi	

Spray Viscosity

EX-2C Clear 117 LG is ready to spray when mixed in the proper mix ratio.

Thinning is not recommended as it will change the gloss level.

Film Build

EX-2C Clear 117 LG has a recommended film build thickness of:

Wet: WFT Unreduced	2.5 – 5.0 mils	64 – 127 microns
Dry: DFT	1.0 – 2.0 mils	25 – 50 microns

Theoretical coverage at 1.0 mil (25 microns) DFT: 609 ft² per gallon at 100% transfer efficiency.

Dry Times

	68°F (20°C)	86°F (30°C)	104°F (40°C)
Dust Free	2 Hours	1 Hour	30 Minutes
Full Cure	7-14 Days		

Note: Dry Times are subject to ambient conditions (temperature and humidity), good airflow and film build of the topcoat.

For best results surface temperature must be 86°F (30°C) or less before topcoating.

The use of Super Catalyst II with Endura topcoats will accelerate drying times.

Important Note: Ensure that no more than three coats of paint are applied in a 12-hour shift. This includes primer, mid-coat, topcoats and clear coat. If more than 3 coats have been applied, wait 10-12 hours to allow for proper solvent evaporation.

For questions about scheduling please contact your Endura Representative.

Clean Up

Clean all equipment immediately after use with Endura High Strength Gun Wash, or Endura EX-2C thinner.

Follow manufacturer's safety recommendations when using any solvent.

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Ordering Information (sizing)

Available in Pints, Quarts, Gallons and Pails.
Other custom sizes may be available.

1 Mixed Quart		
Comp A Lo Gloss	FUA0463-010	1 Pt.
Comp B	FUB0463-010	1 Pt.

2 Mixed Quarts		
Comp A Lo Gloss	FUA0463-020	1 Qt.
Comp B	FUB0463-020	1 Qt.

2 Mixed Gallons		
Comp A Lo Gloss	FUA0463-030	1 Gal.
Comp B	FUB0463-030	1 Gal.

10 Mixed Gallons		
Comp A Lo Gloss	FUA0463-050	5 Gals.
Comp B	FUB0463-050	5 Gals.

Environmental Conditions

For optimum coating performance product, substrate and ambient temperature should be between 68°F-77°F (20°C-25°C). To prevent condensation during application the surface temperature must be 5°F (3°C) or more above the dew point at all times.

For use outside this range please contact your Endura Representative.

Specifications

Hardness	ASTM D3363	4H
Solvent Resistance	ASTM D4752	100 MEK Rubs; No Failure
Impact resistance	ASTM D2794	50 in. lbs; NO failure
Taber Abrasion (1000 cycles CS-17)	ASTM D4060	25 mg loss
Flexibility	ASTM D522	¼" mandrel bend: NO failure
Service Temp	-40°F to 360°F	-40°C to 182°C

Safety Precautions

Please refer to all Safety Data Sheets (SDS) before using this product. SDS sheets can be found on our website at www.endurapaint.com.