

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. It 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
- Low gloss
- VOC Compliant

Recommended Uses

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

Industries:

- Oilfield & Energy Services
- Cranes and Construction Equipment
- Waste and Recycling Industry
- Trailers and Rolling Stock
- Marine (above the water line)

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 |
| 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: For unopened product (77°F (25°C)) | |
| Component A | 3 years |
| Component B | 2 years |

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.

- **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.

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.

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 | |

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 recommended film thickness:

| | | |
|---------------------------|----------------|------------------|
| 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.

EX-2C Clear 117 LG (Lo Gloss)

Technical Data Sheet (TDS)

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 | | |

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.

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.

Ordering Information (sizing)

| | | |
|---------------------------|-------------|---------------------------------|
| EX-2C Clear 117 LG | | 1 mixed quart (946ml) |
| Comp A 117 LG | FUA0463-010 | 1 pint (473ml) |
| Comp B | FUB0463-010 | 1 pint (473ml) |
| EX-2C Clear 117 LG | | 2 mixed quarts (1.89l) |
| Comp A 117 LG | FUA0463-020 | 1 quart (946 ml) |
| Comp B | FUB0463-020 | 1 quart (946 ml) |
| EX-2C Clear 117 LG | | 2 mixed gallons (7.56l) |
| Comp A 117 LG | FUA0463-030 | 1 gallon (3.78l) |
| Comp B | FUB0463-030 | 1 gallon (3.78l) |
| EX-2C Clear 117 LG | | 10 mixed gallons (37.8l) |
| Comp A 117 LG | FUA0463-050 | 5 gallons (18.9l) |
| Comp B | FUB0463-050 | 5 gallons (18.9l) |

Other custom sizes may be available.

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.