

EX-2C Clear 116 MG

(Medium Gloss)

Technical Data Sheet (TDS)

Product Description

EX-2C Clear 116 MG is a low VOC two component, highly cross-linked, high performance polyester polyurethane clear coating. It is a medium 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
- Medium gloss
- VOC Compliant

Recommended Uses

EX-2C Clear 116 MG 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: Medium (40 – 50 GU at 60°)	
Volume Solids Mixed: (Unreduced) FUA0462: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 FUA0462:FUB0463 (1:1)	222.3 g/l 1.855lbs /gal
Shelf Life: For unopened product (77°F (25°C))	
Component A	3 years
Component B	2 years

Surface Preparation

EX-2C Clear 116 MG 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 116 MG 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

Medium Gloss:

- 1 part by volume of component A **[FUA0462]**
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 116 MG 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 116 MG:

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

Apply two wet coats of EX-2C Clear 116 MG 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 116 MG 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 116 MG 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.

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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 116 MG		1 mixed quart (946ml)
Comp A 116 MG	FUA0462-010	1 pint (473ml)
Comp B	FUB0463-010	1 pint (473ml)
EX-2C Clear 116 MG		2 mixed quarts (1.89l)
Comp A 116 MG	FUA0462-020	1 quart (946 ml)
Comp B	FUB0463-020	1 quart (946 ml)
EX-2C Clear 116 MG		2 mixed gallons (7.56l)
Comp A 116 MG	FUA0462-030	1 gallon (3.78l)
Comp B	FUB0463-030	1 gallon (3.78l)
EX-2C Clear 116 MG		10 mixed gallons (37.8l)
Comp A 116 MG	FUA0462-050	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	60 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.