

## 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. EX-2C Clear 116 MG 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 EX-2C Clear 116 MG 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

##### 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.

#### Product Characteristics

<b>Gloss:</b>	
<b>Medium</b>	40 – 50 GU at 60°
<b>Volume Solids Mixed: (Unreduced) FUA0462:FUB0463 (1:1)</b>	38% ± 1%
<b>Pot Life: (77°F (25°C) and 50% RH)</b>	8-10 Hours
<b>Note: Pot life is reduced when Super Catalyst II is used</b>	
<b>VOC Mixed (Unreduced): EPA Method 24 FUA0462:FUB0463 (1:1)</b>	222.3 g/l 1.855 lb /gal
<b>Shelf Life:</b>	
<b>Component A</b>	3 years
<b>Component B</b>	2 years
<b>For unopened product (77°F (25°C))</b>	

#### 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.

#### Note:

- **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.

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#### 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	

#### Spray Viscosity

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 has a recommended film build thickness of:

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

Theoretical coverage at 1.0 mil (25 microns) DFT: 609 ft<sup>2</sup> per gallon at 100% transfer efficiency.

#### Dry Times

	68°F (20°C)	86°F (30°C)	104°F (40°C)
<b>Dust Free</b>	2 Hours	1 Hour	30 Minutes
<b>Full Cure</b>	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 Medium Gloss	FUA0462-010	1 Pt.
Comp B	FUB0463-010	1 Pt.

2 Mixed Quarts		
Comp A Medium Gloss	FUA0462-020	1 Qt.
Comp B	FUB0463-020	1 Qt.

2 Mixed Gallons		
Comp A Medium Gloss	FUA0462-030	1 Gal.
Comp B	FUB0463-030	1 Gal.

10 Mixed Gallons		
Comp A Medium Gloss	FUA0462-050	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	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](http://www.endurapaint.com).