

## EX-2C Clear 100

### Technical Data Sheet (TDS)

#### Product Description

**EX-2C Clear 100** is a two component highly cross-linked, high performance polyester polyurethane clear coating. EX-2C Clear 100 is a clear coating designed to give extra protection to solid, metallic and pearl colors.

#### Product features:

- Exceptional ultraviolet light protection
- Exceptional abrasion resistance
- Outstanding chemical resistance
- Outstanding abrasion resistance
- Outstanding impact resistance
- High gloss

#### Recommended Uses

EX-2C Clear 100 is intended for industrial applications; either new build or maintenance.

EX-2C Clear 100 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)

**Note: The performance enhancing additives of EX-2C Clear 100 interfere with the recoatability of this product (fisheyes or cratering are possible). On projects that require recoatability, use EX-2C Midcoat Clear 100.**

#### Mix Ratio

1 part by volume of component A [FUA0100]  
1 part by volume of component B [FUB0100]

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

**Other EX-2C B components are available for varying ambient conditions and application requirements. Consult the Component B Selector.**

Contact your Endura Representative if you have any questions.

#### Product Characteristics

<b>Gloss:</b>	High: 90+ GU at 60°
<b>Volume Solids Mixed: (Unreduced) Using Comp B FUB0100</b>	39% ± 2%
<b>Pot Life:</b> (77°F (25°C) and 50% RH)	8-10 Hours
<b>Note: Pot life is reduced when Super Catalyst II is used</b>	
<b>VOC Mixed (Unreduced):</b> EPA Method 24 <b>Clear 100: Comp B FUB0100</b>	529 g/l 4.419 lb /gal
<b>VOC content will vary with specific Component B used</b>	
<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 100 can be applied on EX-2C Topcoat colors without sanding during the 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 the topcoat lightly with 400 grit sandpaper or maroon/grey scuff pads.

#### Note:

- **Do not sand metallic or pearl colors.**
- **Do not mix Clear 100 with metallic color for final coat.**
- **Do not mix Clear 100 into the final color coat on solid colors.** This may cause matching and repeatability issues.

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#### Application Method

EX-2C Clear 100 can be applied using most spray painting systems.

After application of EX-2C Topcoat wait for the following times before application of Clear 100:

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

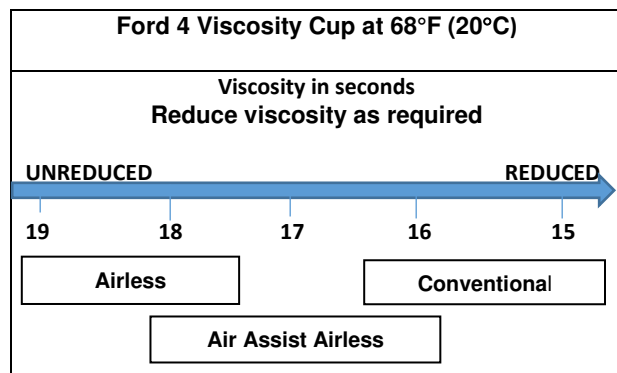
Apply two wet coats of EX-2C Clear 100 allowing up to 30 minutes between coats.

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	50-60 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



**Note: Spraying viscosity and thinning will depend on ambient conditions, spray equipment used, and the desired surface finish.**

If required, recommended spraying viscosity is achieved by reducing with one of the desired Endura topcoat thinner/ reducer.

FTH0086 – EX-2C Thinner / Reducer  
FTH0090 – Slo EX-2C Thinner /Reducer  
FTH0014 – Medium Topcoat Reducer

#### AUTOMOTIVE FINISH

To achieve an automotive like finish (smooth, minimal orange peel) with EX-2C Clear 100 additional reduction will be required  
**Recommended Mixing Ratio:**

2 parts by volume Component A  
2 parts by volume Component B  
1 part by volume Medium Topcoat Reducer

This reduction will result in a spray viscosity of approximately 14.0 secs Ford 4 Cup (White)

#### Recommended Reduced Spray Viscosity:

Reduced Mixed Viscosity	
14-15 seconds	Ford 4 Cup (White)

**Note: Spraying viscosity and thinning will depend on ambient conditions, spray equipment used, and the desired surface finish.**

Application of a third coat will be required to achieve the recommended film build of:

Dry: 1.5 – 2.5 mils DFT (37.5 – 62.5 microns)

Please contact your Endura Representative if you have any questions.

#### Film Build

EX-2C Clear 100 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: 625 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)
<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 three coats have been applied wait 10-12 hours to allow for proper solvent evaporation.

For questions about scheduling please contact your Endura Representative.

#### Component B Selector

**EX-2C Low VOC B** – For use when VOC compliance is required such as rebrand repaint situations

1 part by volume of component A [FUA0100]  
1 part by volume of component B [FUB0112]

**EX-2C Clear 100 with Low VOC B is not VOC compliant**

**EX-2C H.A.T. B** – For use in high ambient temperatures above 86°F (30°C)

1 part by volume of component A [FUA0100]  
1 part by volume of component B [FUB0071]

**EX-2C Electrostatic B** – For use with electrostatic spraying units:

1 part by volume of component A [FUA0100]  
1 part by volume of component B [FUB0103]

**EX-2C Special B** – For use when higher viscosity is required for brush and roll applications.

2 parts by volume of component A [FUA0100]  
1 part by volume of component B [FUB0101]

For further information on EX-2C with Special B refer to the Technical data sheet.

**EX-2C California B** – A Zero VOC B for the most stringent of VOC emission standards.

1 part by volume of component A [FUA0100]  
1 part by volume of component B [FUB0111]

**EX-2C Clear 100 with EX-2C California B is not VOC compliant.**

**EX-2C Low VOC A.C.T. B** – For use when speed is critical for multiple color striping.

1 part by volume of component A [FUA0100]  
1 part by volume of component B [FUB2100]

**EX-2C Clear 100 with EX-2C Low VOC A.C.T. B is not VOC compliant.**

For further information on EX-2C Low VOC A.C.T. B refer to the Technical data sheet.

For questions regarding which component B is right for your application, 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, 5 Gallon Pails.  
Other custom sizes may be available.

1 Mixed Quart		
Comp A	FUA0100-010	1 Pt.
Comp B	FUB0100-010	1 Pt.

2 Mixed Quarts		
Comp A	FUA0100-020	1 Qt.
Comp B	FUB0100-020	1 Qt.

2 Mixed Gallons		
Comp A	FUA0100-030	1 Gal.
Comp B	FUB0100-030	1 Gal.

10 Mixed Gallons		
Comp A	FUA0100-050	5 Gal.
Comp B	FUB0100-050	5 Gal.

#### 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	100 in. lbs; NO failure
Abrasion Resistance (1000 cycles CS-17)	ASTM D4060	25 mg loss
Flexibility	ASTM D522	1/8 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)