

## EX-2C Clear 100

### Technical Data Sheet (TDS)

#### Product Description

Endura 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

Endura 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. (Fish eyes or cratering are possible)**

**On projects that require re-coatability use EX-2C Midcoat Clear 100.**

#### Mix Ratio

1 parts by volume of component A **[FUA0100]**  
1 parts by volume of component B **[FUB0100]**

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

**NOTE: that other EX-2C B components are available for different ambient conditions and application requirements. See: Component B Selector and Mixing Ratios Please contact your sales representative if you have any questions.**

#### Product Characteristics

**Gloss:** High Gloss 90+ GU at 60 deg.

**Volume Solids Mixed: Using Comp B - FUB0100**  
39% ± 2%

**Pot Life:** 8-10 Hours at 77°F (25°C) and 50% RH

**Note: Pot life is reduced when Supercat II is used**

**VOC Mixed (Unreduced):** (EPA Method 24):  
**Clear 100: Comp B FUB0100 529 g/l (4.419 lb /gal)**

**Note: VOC content will vary with specific Component B utilized.**

#### Shelf Life:

Component A: 3 years at 77°F (25°C)

Component B: 2 years at 77°F (25°C)

**Note: For unopened product**

#### Surface Prep

EX-2C Clear 100 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.

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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.**
- **Mix clear into final color coat on solid colors.** This may cause matching and repeatability issues. Ensure opacity is achieved in previous coat.

#### Application Method

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

**After application of EX-2C Topcoat wait:**

**Solid Colors:**

**3 - 18 hours before applying Clear 100**

**Metallic Colors:**

**6 - 18 hours before applying Clear 100**

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

**Note: 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	

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#### Spray Viscosity

Using a Ford 4 Cup (White)

14 Seconds	Reduce as necessary*
Conventional	Airless

**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

#### Film Build

EX-2C Clear 100 has a recommended film build thickness of:

**Wet (unreduced): 2.5 – 5.0 mils wet (64 – 127 microns)**

**Dry: 1.0 – 2.0 mils DFT (25 – 50 microns)**

Theoretical coverage at 1.0 mil (25 microns)  
DFT: 633ft<sup>2</sup> per gallon at 100% transfer efficiency.

#### Dry Times

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

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

**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.**

#### Component B Selector

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

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

**Note: 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 parts by volume of component A [FUA0100]  
1 parts by volume of component B [FUB0071]

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

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

**Note: 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 parts by volume of component A [FUA0100]  
1 parts by volume of component B [FUB0111]

**Note: 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 parts by volume of component A [FUA0100]  
1 parts by volume of component B [FUB2100]

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

**Note: 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, Endura epoxy reducer 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 Quart		
Comp A	FUA0100-010	1 Pt.
Comp B	FUB0100-010	1 Pt.

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

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

10 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.

**Note: 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	80 in. lbs; NO failure
Taber Abrasion (1000 cycles CS-17)	ASTM D4060	25 mg loss
Flexibility	ASTM D522	1/8 mandrel bend: NO failure
Service Temp	-40°C to +182°C -40°F to 360°F	

#### Safety Precautions

Please refer to all Safety Data Sheets (SDS) before using this product. SDS sheets can be found on our website at [www.endura.ca](http://www.endura.ca).