

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

Gloss:	High: 90+ GU at 60°
Volume Solids Mixed: (Unreduced) Using Comp B FUB0100	39% ± 2%
Pot Life: (77°F (25°C) and 50% RH)	8-10 Hours
Note: Pot life is reduced when Super Catalyst II is used	
VOC Mixed (Unreduced): EPA Method 24 Clear 100: Comp B FUB0100	529 g/l 4.419 lb /gal
VOC content will vary with specific Component B used	
Shelf Life:	
Component A	3 years
Component B	2 years
For unopened product (77°F (25°C))	

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

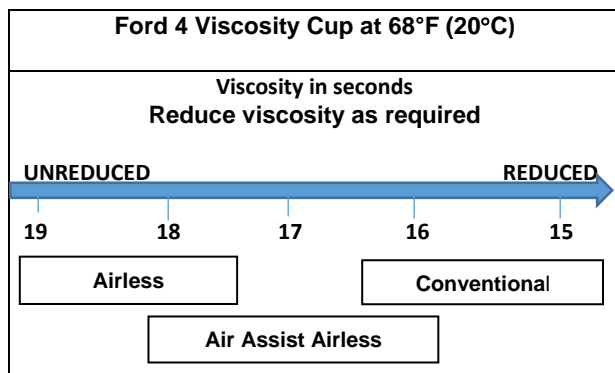
Apply two wet coats of EX-2C Clear 100 allowing up to 30 minutes between coats.

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)
Dust Free	2 Hours	1 Hour	30 Minutes
Full Cure	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