

EX-2C Midcoat Clear 100

Technical Data Sheet (TDS)

Product Description

Endura EX-2C Midcoat Clear 100 is a two component highly cross-linked, high performance polyester polyurethane clear coating. EX-2C Midcoat Clear 100 is a clear is 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
- A durable, self-prime coating for wood floors

Recommended Uses

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

Mix Ratio

1 parts by volume of component A [FUA0001]
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: 42% ± 1%

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):

Midcoat Clear100: Comp B FUB0100
512 g/l (4.273 lb /gal)

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 Midcoat 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.

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 600 grit sandpaper or Maroon/ Grey Scuff Pads.

Note:

- **Do not sand Metallic or Pearl colors.**
- **Do not mix Midcoat 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.

NOTE: Please contact your Endura sales representative regarding use of this product.

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Application Method

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

After application of EX-2C Topcoat wait:

Solid Colors:

8 - 18 hours before applying Midcoat Clear 100

Metallic Colors:

8 - 18 hours before applying Midcoat 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	1.3-1.4 mm	30-40 psi	
Pressure Feed	1.0-1.4 mm	50-60 psi	10-14 oz/min
Air Assist Airless	9-14 Thou	1,000-1,800 psi	
Airless	9-14 Thou	1,700-3,000 psi	

Spray Viscosity

Using a Ford 4 Cup (White)

14 Seconds	Reduce as necessary*
Conventional	Airless

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

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

FTH0086 – EX-2C Thinner

FTH0090 – Slo EX-2C Thinner

FTH0014 – Medium Topcoat Reducer

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Film Build

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

**Wet (unreduced): 2.5 – 5.0 mils wet
(65 – 125 microns)**

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

Theoretical coverage at 1.0 mil (25 microns)
DFT: 665 ft² per gallon at 100% transfer efficiency.

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) and good airflow and film build of the topcoat.

Note: The use of Super Catalyst II with Endura topcoats will accelerate drying times.

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.

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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 Midcoat 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]

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

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.

Ordering Information (sizing)

Available in Gallons and Pails.

Other custom sizes may be available.

2 Gallons		
Comp A	FUA0001-030	1 Gal.
Comp B	FUB0100-030	1 Gal.

10 Gallons		
Comp A	FUA0001-050	5 Gal.
Comp B	FUB0100-050	5 Gal.

Environmental Conditions

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.

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