

EX-2C Topcoat

Technical Data Sheet (TDS)

Product Description

EX-2C Topcoat is a two component highly cross-linked, high performance polyester polyurethane coating providing a high gloss surface finish.

Product features:

- Excellent UV stability providing long term gloss and color retention
- Outstanding chemical resistance
- Outstanding abrasion resistance
- Outstanding impact resistance
- A library of over 40,000 colors

Recommended Uses

EX-2C Topcoat is intended for industrial applications, either new build or maintenance.

EX-2C Topcoat is suitable for application on all Endura primers.

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

1 part by volume of component A [CLRXXXXX]
(Part Number varies with color)

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°
Slight gloss variations will occur depending on color. Lower gloss levels can be achieved with use of FA777 or application of lower gloss Endura EX-2C Clear 116 MG, 117 LG or 118 NG	
Volume Solids Mixed: (Unreduced) FUA0120: FUB0100 (1:1)	40% ± 4%
Volume solids will vary by color	
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 FUA0120: FUB0100 (1:1)	482 g/l 4.026 lb /gal
VOC content will vary with each color and 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 Topcoat can be applied over all Endura primer sealers and primer surfacers without sanding during their topcoat window. The topcoat window varies with each primer. See the relevant primer technical data sheet for the specific topcoat window data.

If the primer topcoat window has been surpassed; the primer should be sanded with 240 – 280 grit sandpaper to achieve inter coat adhesion. All sanding dust must be blown off prior to application of the topcoat.

Application Method

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

Note: Ensure that any solvent absorbent primer surfacers are properly sealed with a primer sealer prior to application of the topcoat.

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Film Build

Endura EX-2C Topcoat has a recommended film build thickness of:

Wet: WFT Unreduced	3.5 – 5.5 mils	89 – 140 microns
Dry: DFT	1.5 – 2.5 mils	38 – 63 microns

Poor hiding colors film build may be higher.

Theoretical coverage at 1.0 mil (25 microns)
Average DFT is: 675 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	7-9 Days	5-6 Days	3-4 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.

Maximum re-coat window without sanding is 18 hrs at 68°F (20°C). After 18 hours EX-2C Topcoat must be sanded to achieve inter-coat adhesion. Mechanical sanding with 220 – 320 grit is recommended before topcoating.

Note: 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.

Clear Coating

If EX-2C is going to be clear coated the following minimum times before application of the clear coat are recommended:

Solid Colors	Metallic Colors
3 Hours	6 hours

The minimum clear coat times are based on based on recommended film build at 68°F (20°C) and 50% RH. The use of Supercatalyst I or II in the EX-2C will reduce these minimum times.

Maximum re-coat window without sanding is 18 hrs at 68°F (20°C). After 18 hours EX-2C Topcoat must be sanded to achieve inter-coat adhesion. Mechanical sanding with 400 grit is recommended before clear coating.

Metallics and pearls must be clear coated within this re-coat window as sanding is not recommended.

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 [CLRXXXXX]
1 part by volume of component B [FUB0112]

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

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

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

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

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

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 [CLRXXXXX]
1 part by volume of component B [FUB2100]

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.

Ordering Information (sizing)

Available in Pints, Quarts, Gallons, 5 Gallon Pails
Other custom sizes may be available.

1 Mixed Quart		
Comp A Part numbers vary by color	CLRXXXXX-010	1 Pt.
Comp B	FUB0100-010	1 Pt.

2 Mixed Quarts		
Comp A Part numbers vary by color	CLRXXXXX-020	1 Qt.
Comp B	FUB0100-020	1 Qt.

2 Mixed Gallons		
Comp A Part numbers vary by color	CLRXXXXX-030	1 Gal.
Comp B	FUB0100-030	1 Gal.

10 Mixed Gallons		
Comp A Part numbers vary by color	CLRXXXXX-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.

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Specifications

Hardness	ASTM D3363	2H
Solvent Resistance	ASTM D4752	100 MEK Rubs; No Failure
Abrasion Resistance (1000 cycles CS-17)	ASTM D4060	32 mg loss
Impact Resistance	ASTM D2794	100 in. lbs; NO failure
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.