

EX-2C Topcoat with Special Component B

Technical Data Sheet (TDS)

Product Description

EX-2C Topcoat (Special Component B) 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
- VOC Compliant

Recommended Uses

EX-2C Topcoat (Special Component B) is intended for industrial applications, either new build or maintenance. It is suitable for application on all Endura primers.

EX-2C Topcoat (Special Component B) is used for brush and rolling applications.

Not recommended for use with metallic colors.

Industries:

- Oilfield & Energy Services
- Cranes and Construction Equipment
- Waste and Recycling Industry
- Trailers and Rolling Stock
- Marine (above the water line)

Product Characteristics

Gloss: High: 90+ GU at 60°	
Slight gloss variations will occur depending on color.	
Volume Solids Mixed: (Unreduced) FUA0120: FUB0101 (2:1)	63% ± 2%
Volume solids will vary by color.	
Pot Life: (77°F (25°C) and 50% RH)	8-10 Hours
Pot life is reduced when Super Catalyst II is used	
VOC Mixed (Unreduced): EPA Method 24 FUA0120: FUB0101 (2:1)	329 g/l 2.746 lb /gal
All colors are below 420 g/l (3.5 lb/gal). VOC content will vary with each color and specific Component B used	
Shelf Life: For unopened product (77°F (25°C))	
Component A	3 years
Component B	2 years

Surface Preparation

EX-2C Topcoat (Special Component B) 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.

Mix Ratio

2 parts by volume of component A [**CLRXXXXX**]
(Part Number varies with color)
1 part by volume of component B [**FUB0101**]

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

Contact your Endura Representative if you have any questions.

Application Method

EX-2C Topcoat (Special Component B) can be applied using a brush or roller.

Use a 1/8-inch (3mm) pile roller and /or a natural hair bristle brush. For areas greater than 1000 sq. ft. (92 sq. m) use a squeegee to spread out the coating followed by back rolling with the short pile roller.

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

Solid Colors: Rolling and Tipping

Ensure that the surface is free of flaws, nibs, or imperfections. If large imperfections exist after the primer coat use 120-150 grit sandpaper to remove them. Use a vacuum cleaner to remove all dust from the surface.

On large surfaces first roll the EX-2C Topcoat (Special Component B). Smooth the roller stipple by lightly tipping the surface with a brush. This can be done with 2 painters working side by side (i.e., 1 rolling and 1 tipping), or with 1 painter rolling approximately 6 square feet and then tipping the area before rolling any further.

Film Build

EX-2C Topcoat (Special Component B) recommended film thickness:

Wet: WFT Unreduced	2.5 – 4.0 mils	63 – 100 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: 1005 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	7-9 Days	5-6 Days	3-4 Days

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 (Special Component B) topcoat must be sanded to achieve inter-coat adhesion. Mechanical sanding with 220 – 320 grit is recommended before topcoating.

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

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.

Clear Coating

If EX-2C Topcoat (Special Component B) is going to be clear coated the following minimum times before application of the clear coat are recommended:

Solid Colors
4 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.

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

For questions about scheduling please 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)

Component A Part numbers vary by color.

EX-2C with Special B		3 mixed pints (1.42l)
Comp A -2X	CLRXXXXX-010	1 pint (473ml)
Comp B	FUB0101-010	1 pint (473ml)

EX-2C with Special B		3 mixed quarts (2.84l)
Comp A -2X	CLRXXXXX-020	1 quart (946 ml)
Comp B	FUB0101-020	1 quart (946 ml)

EX-2C with Special B		3 mixed gallons (11.34l)
Comp A -2X	CLRXXXXX-030	1 gallon (3.78l)
Comp B	FUB0101-030	1 gallon (3.78l)

EX-2C with Special B		15 mixed gallons (56.7l)
Comp A -2X	CLRXXXXX-050	5 gallons (18.9l)
Comp B	FUB0101-050	5 gallons (18.9l)

Other custom sizes may be available.

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	2H
Solvent Resistance	ASTM D4752	100 MEK Rubs; No Failure
Abrasion Resistance (1000 cycles CS-17)	ASTM D4060	32mg 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.