

EX-2C TF2K Topcoat

Technical Data Sheet (TDS)

Product Description

Endura EX-2C TF2K Topcoat is a two component highly cross-linked, high performance polyester polyurethane coating providing a high gloss surface finish. Endura EX-2C TF2K Topcoat is formulated with enhanced abrasion resistance.

Product features:

- Provides a non-stick surface
- Outstanding resistance to abrasion
- Excellent resistance to jet fuel and kerosene
- Available in solid, metallic and pearl colors
- A library of over 40,000 colors

Recommended Uses

Endura EX-2C TF2K Topcoat is intended for industrial applications; either new build or maintenance. EX-2C TF2K Topcoat is suitable for application on all Endura primers.

This coating provides a non-stick surface ideal for tankers, bulkers and hoppers.

Transport industry use should be limited to specific problem areas requiring abrasion and impact protection.

Note: EX-2C TF2K Topcoat is CANNOT be recoated even after sanding. Complete removal is required.

Note: EX-2C TF2K is NOT available in a High Gloss Finish.

Mix Ratio

NON VOC COMPLIANT:

- 1 part by volume of component A [CLRXXXXX]
(Part Number varies with color)
- 1 part by volume of component B [FUB0100]

VOC Compliant:

- 1 part by volume of component A [CLRXXXXX]
(Part Number varies with color)
 - 1 part by volume of component B [FUB0112]
- The recommended temperature when mixed is 68-77°F (20-25°C).

Note: When EX-2C TF2K Topcoat is mixed with EX-2C low VOC Component B (FUB 0112), all colors are below 420 g/l (3.5 lb/gal) and VOC Compliant

Product Characteristics

Gloss: Semi-Gloss Gloss 40-60 GU at 60 deg.

Volume Solids Mixed (Unreduced):
Using Comp B FUB0100 or Low VOC B FUB0112

47% ± 4% (depending on color)

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):

White 120: Comp B FUB0100: 429 g/l (3.58 lb /gal)

Low VOC Component B

White 120: Comp B FUB0112: 208 g/l (1.734 lb /gal)

Note: All colors are below 420 g/l (3.5 lb/gal) When using Low VOC Component B FUB0112

Note: VOC content will vary with each color and 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

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Surface Prep

EX-2C TF2K 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.

EX-2C TF2K Topcoat may be applied directly over old Endura EX-2C Topcoat or Endura EX-2C Clear 100 after thorough cleaning and sanding with 240 – 280 grit sandpaper.

Application Method

EX-2C TF2K Topcoat can be applied using most spray painting systems. For electrostatic spray equipment EX-2C Electrostatic component B component is recommended for best performance.

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

Solid Colors:

Apply two single wet coats at a wet film thickness of 2.0 – 2.5 mils (50-60 microns), allowing up to 30 minutes flash time between coats.

Metallic Colors:

Apply two medium wet coats at a wet film thickness of 1.5 – 2.0 (37 – 50 microns).
Allow 15 – 30 minutes between coats.
Apply a third “mist” coat to achieve a uniform metallic finish.

NOTE: Contact Endura Representative regarding recoating T2FK after a full cure.

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	9-13 Thou	1,000-1,800 psi	
Airless	11-13 Thou	1,700-3,000 psi	

If required, recommended spraying viscosity is achieved by reducing with Endura EX-2C Thinner/Reducer.

FTH0086 – EX-2C Thinner/ Reducer
FTH0090 – Slo EX-2C Thinner/Reducer
FTH0014 – Medium Topcoat Reducer

Low Voc Component B

To maintain VOC compliance, if required, thin EX-2C TF2K Topcoat with Endura Low VOC topcoat Thinners/Reducers. VOC content of the following Reducers: (0g/l, 0lbs/gal)

FTH0021 – Low VOC Topcoat Thinner/ Reducer
FTH0023 – Slow Low VOC Topcoat Thinner / Reducer

Film Build

Endura EX-2C TF2K has a recommended film build thickness of:

**Wet (unreduced): 2.0 – 2.5 mils wet
(50-62.5 microns)**

Dry: 1.0 – 1.5 mils DFT (25 – 31 microns)
Note: With poor hiding colors film build may be higher

Theoretical coverage at 1.0 mil (25 microns)
Average DFT: 750 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	5-6 Days	3-4 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 questions about scheduling please 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.

Ordering Information (sizing)

Available in Pints, Quarts, Gallons and Pails

Other custom sizes may be available.

1 Quart		
Comp A	CLRXXXXX-010	1 Pt.
Part numbers vary by color		
Comp B	FUB0100-010	1 Pt.
Comp B VOC Compliant	FUB0112-010	1 Pt.

2 Quarts		
Comp A	CLRXXXXX-020	1 Qt.
Part numbers vary by color		
Comp B	FUB0100-020	1 Qt.
Comp B VOC Compliant	FUB0112-020	1 Qt.

2 Gallons		
Comp A	CLRXXXXX-030	1 Gal.
Part numbers vary by color		
Comp B	FUB0100-030	1 Gal.
Comp B VOC Compliant	FUB0112-030	1 Gal.

10 gallons		
Comp A	CLRXXXXX-050	5 Gal
Part numbers vary by color		
Comp B	FUB0100-050	5 Gal
Comp B VOC Compliant	FUB0112-050	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.

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Specifications

Hardness	ASTM D3363	3H
Solvent Resistance	ASTM D4752	100 MEK Rubs; No Failure
Abrasion resistance (1000 cycles CS-17)	ASTM D4060	20 mg loss
Impact resistance	ASTM D2794	40 in. lbs; NO failure
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.