

Endura EX-2C Topcoat

Technical Data Sheet (TDS)

Product Description

Endura EX-2C Topcoat is a two component highly cross-linked, high performance polyester polyurethane coating providing high gloss, color retention and outstanding resistance to chemicals, abrasion and impact to provide maximum protection and an impressive surface finish.

Product features:

- Excellent UV Stability, providing long term:
 - High gloss and
 - color retention
- Outstanding resistance to chemicals, abrasion & impact
- A library of over 40,000 colors
- Color matching service available
- Available in: High and reduced gloss, Pearl, Metallic and Candied

Recommended Uses

Endura EX-2C Topcoat is a high performance coating for protecting all surfaces. It provides maximum protection in all environments.

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 [*varies by color*]
1 part by volume of component B [FUB0100]

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

**Please note that other EX-2C B components are available (for different ambient conditions and application requirements) please contact your representative if you have any questions.*

Product Characteristics

Finish: High Gloss (other gloss levels available)

Volume Solids: 43 ± 4% (depending on color)

Pot Life: 8-10 Hours* @ 77°F (25°C) and 50% RH

VOC (EPA Method 24): For VOC amounts please refer to the product SDS

Shelf Life**:

Component A: 3 years

Component B: 2 years

**Less when Endura Super Catalyst II is used*

***For unopened product.*

Surface Prep

Can be directly applied to most surfaces that have been: degreased, sanded with 240 – 280 grit sandpaper and prepared with appropriate Endura products.

The primed surface should be dry and free from all contaminants, please see the relevant primer technical data sheet. (for topcoat windows)

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 | 1.0-1.8 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 | |

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Spray Viscosity*

Using a Ford 4 Cup (White)

| | |
|--------------|-------------------------|
| 14 Seconds* | Reduce as necessary* |
| Conventional | Airless |

*Spraying viscosity and thinning will depend on ambient conditions, spray equipment used, and on the desired surface finish. If required, recommended spraying viscosity is achieved by reducing with Endura EX-2C thinners.

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

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

Application Method

Solid Colors: Apply two single wet coats with 30 minutes between coats. On high solids primers and other absorbent solvent substrates, use greater care in achieving the required film build thickness. It is recommended that a thinner first layer be applied at 1.0 – 1.5 mils. Allow 30 – 45 minutes between coats.

Metallic Colors: Three coats are recommended for metallic colors. 1. Apply two medium coats. 2. Allow 30 minutes between coats then apply a third “mist coat” to achieve a uniform finish. A high-wide version of any metallic color can be used, and then clear coated for superior gloss retention and UV stability.

Film Build

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

Wet: (unreduced): 3.5 – 5.5 mils
(87.5 – 137.5 microns)

Dry: 1.5 – 2.5 mils DFT
(37.5 – 62.5 microns)

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

Dry Times

Recoats or clear coating application:
solid colors: after 4 hours**
metallic colors: 6 hours**

(*based on 70°F and 50% RH).

After 18 hours EX-2C topcoat must be sanded to achieve inter-coat adhesion.

| | @ 20°C (68°F) | @ 30°C (86°F) | @ 40°C (104°F) |
|------------------|------------------|------------------|-------------------|
| Dust Free | 2 Hours | 1 Hour | 30 Minutes |
| Full Cure | 7-9 Days | 5-6 Days | 3-4 Days |

*Subject to ambient conditions (temperature and humidity) and good airflow.

**Please note that the use of Super Catalyst II with Endura topcoats will accelerate drying times.

***Please ensure that no more than three coats of paint are applied in a given 12-hour shift (including primer, mid-coat, topcoats and clear coat). If more than 3 coats have been applied please wait 10-12 hours to allow for proper solvent evaporation.

For questions about scheduling please contact your Endura representative.

Clean Up

Clean up spills, and equipment 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 Pint, Quart, Gallon and Pail kits.

Other custom sizes may be available.

| | | |
|-------------------|---------------|--|
| Pint Kit | Comp A | CLR*****-010 (1 Pint) [part #'s vary by color] |
| | Comp B | FUB0100-010 (1 Pint) |
| Quart Kit | Comp A | CLR*****-020 (1 Quart) [part #'s vary by color] |
| | Comp B | FUB0100-020 (1 Quart) |
| Gallon Kit | Comp A | CLR*****-030 (1 Gallon) [part #'s vary by color] |
| | Comp B | FUB0100-030 (1 Gallon) |
| Pail Kit | Comp A | CLR*****-050 (1 Pail) [part #'s vary by color] |
| | Comp B | FUB0100-050 (1 Pail) |

Environmental Conditions

For optimum coating performance product, substrate and ambient temperature should be between 20°C-25°C* (68°F-77°F). To prevent condensation during application the surface temperature must be 3°C (5°F) 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 | 32 mg loss |
| Impact resistance | ASTM D2794 | 100 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.