



## EX-2C Low VOC Topcoat

### Technical Data Sheet (TDS)

#### Product Description

Endura EX-2C Low VOC 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
- **VOC Compliant**

#### Recommended Uses

Endura 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 **[FUB0112]**

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.

**Note: Slight gloss variations will occur depending on color**

#### Note:

**Lower gloss levels can be achieved with use of FA777.**

**Volume Solids Mixed: Using Comp B FUB0112**  
40 ± 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 FUB0112: 297 g/l (2.480 lb /gal)**

**Note: All colors are below 420 g/l (3.5 lb/gal)**  
**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**

#### Surface Prep

EX-2C Low VOC 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.



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#### Application Method

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

**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 allowing up to 30 minutes flash time between coats.

It is recommended that a thinner first coat be applied 1.5 – 2.0 mils wet, followed by a wet coat of 2.0 - 3.5 mils wet. Allow up to 30 minutes between coats.

#### Metallic Colors:

Three coats are recommended for metallic colors. Apply two medium coats. Allow up to 30 minutes flash off time between coats then apply a third “mist coat” to achieve a uniform finish.

**Note: When a high-hide version of any solid or metallic color is used it must be clear coated to realize full gloss and UV stability.**

#### 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 | 55-65 psi                           | 12-14 oz/min   |
| Air Assist Airless | 9-13 Thou  | 1,000-1,800 psi                     |                |
| Airless            | 9-13 Thou  | 1,000-3,000 psi                     |                |

#### Spray Viscosity

| Using a Ford 4 Cup (White) |                      |
|----------------------------|----------------------|
| 14 Seconds                 | Reduce as necessary* |
| Conventional               | Airless              |

**Note: Spraying viscosity and thinning will depend on ambient conditions, spray equipment used, and the desired surface finish.**

**Note: EX-2C Low VOC has a lower viscosity than the original EX-2C formulation. A spray test should be done prior to reducing.**

To maintain VOC compliance, if required, thin EX-2C LVOC 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

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

**Wet: (unreduced): 3.5 – 5.5 mils  
(89 – 140 microns)**

**Dry: 1.5 – 2.5 mils DFT (37.5 – 62.5 microns)**  
**Note: With poor hiding colors film build may be higher**

Theoretical coverage at 1.0 mil (25 microns)  
**Average DFT is: 675 ft<sup>2</sup> per gallon at 100% transfer efficiency.**

#### Dry Times

|                  | 68°F<br>(20°C) | 86°F<br>(30°C) | 104°F<br>(40°C) |
|------------------|----------------|----------------|-----------------|
| <b>Dust Free</b> | 2 Hours        | 1 Hour         | 30 Minutes      |
| <b>Full Cure</b> | 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.**



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**Clear coat application time:**

**Solid colors: Minimum 4 hours**  
**Metallic colors: Minimum 6 hours**

**Note: The recoat or clear coat times are based on based on 68°F (20°C) and 50% RH and recommended film build.**

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.

**Note: Metallics and pearls must be topcoated within this re-coat window as sanding not recommended.**

Recommended 220 – 320 grit mechanical sanding 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.**

#### Component B Selector

**Note: To maintain VOC compliance only the following Endura Component B activators may be used.**

**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]

**Note: 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]

**Note: 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, 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                     | FUB0112-010  | 1 Pt. |



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|   |              |       |
|---|--------------|-------|
| <b>2 Quarts</b>                             |              |       |
| <b>Comp A</b><br>Part numbers vary by color | CLRXXXXX-020 | 1 Qt. |
| <b>Comp B</b>                               | FUB0112-020  | 1 Qt. |

|   |              |        |
|---|--------------|--------|
| <b>2 Gallons</b>                            |              |        |
| <b>Comp A</b><br>Part numbers vary by color | CLRXXXXX-030 | 1 Gal. |
| <b>Comp B</b>                               | FUB0112-030  | 1 Gal. |

|   |              |       |
|---|--------------|-------|
| <b>10 gallons</b>                           |              |       |
| <b>Comp A</b><br>Part numbers vary by color | CLRXXXXX-050 | 5 Gal |
| <b>Comp B</b>                               | FUB0112-050  | 5Gal  |

### 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.**

### 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                        | 40 in. lbs; NO failure       |
| Flexibility                             | ASTM D522                         | 1/8 mandrel bend: NO failure |
| Service Temp                            | -40°C to +182°C<br>-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](http://www.endura.ca).