

### EX-2C Low VOC

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



New Product Name:  
EX-2C Low VOC

Release Date:  
June 21th 2010

Attachments:  
TDS

#### Benefits of EX-2C Low VOC:

- ◆ EX-2C Low VOC meets or exceeds the Canadian Automotive refinishing guidelines (includes industrial mobile equipment) for VOC levels in colour coats.
- ◆ Available over 40,000 solid, metallic and pearl colours.

Additional Information:

Datasheets, MSDS and product brochures for EX-2C Low VOC are available on the [endura.ca](http://endura.ca) website.

QUESTIONS?  
PLEASE CONTACT US.  
1-800-661-9930  
[info@endura.ca](mailto:info@endura.ca)  
[www.endura.ca](http://www.endura.ca)

## Endura EX-2C Low VOC New VOC Compliant Topcoat

Endura is pleased to announce the release of a new Low VOC EX-2C coating.

The new formulation will replace Endura's current Low VOC formulation and will begin shipping the week of June 21, 2010.

Endura EX-2C Low VOC was developed to provide an easy to spray coating that provided all the properties of our regular EX-2C product, with less than 420 grams/liter (3.5 lbs/gallon).

#### F.A.Q

**Q:** Is there any change to the **A** side of the product?

**A:** No, the new formulation is for the EX-2C **B** (new part number FUB0112)

**Q:** Will the new **B** affect the mixing ratio or spraying viscosity?

**A:** The New EX-2C Low VOC coating will be very similar to our regular EX-2C topcoat, the mix ratio will remain 1:1.

#### **New Application Instructions:**

- ◆ Apply two single wet coats, heavier first coat followed up by a lighter second coat with 30 minutes between coats.

#### **New Thinning Instructions:**

- ◆ To maintain VOC compliance Endura EX-2C Low VOC can be thinned to a maximum of 12% by volume, with Endura Medium Topcoat Reducer.

**Endura EX-2C Low VOC is formulated to exceed the Canadian automotive refinishing guidelines (includes industrial mobile equipment) for VOC levels in colour coats. All EX-2C Low VOC colours, including solid, metallic and pearl colours are below 420 grams/liter (3.5 lbs/gallon)**

#### **About Endura Manufacturing Co. Ltd.**

Endura Manufacturing Co Ltd, an Alberta, Canada based company was incorporated in 1966 with the objective of developing and marketing specialty paints and coatings. Endura manufactures industrial paints and coatings using the highest quality raw materials. Endura paints and primers achieve outstanding performance in aggressive, corrosive, and abrasive environments. They are relied upon to be easy-maintenance, retaining gloss and color even with exposure to severe industrial cleaning methods.

Through years of research and development Endura has created paint systems designed to work in the harshest environments, from off shore oil rigs to gravel trucks, providing an easy to spray, long lasting coating that will protect your investment for years to come.



### EX-2C Low VOC Colour Coat

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

#### Product Features

- ◆ 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
- ◆ VOC Compliant

#### Theoretical Solids Content:

Volume: 46%

#### Shelf Life\*

Component A: (3) years  
Component B: (1) year

\*For unopened product.

#### Pot Life of Mixed Product:

8-10 Hours\* @ 77°F (25°C) and 50% RH

\* Less when Endura Super Catalyst II is used.



#### Suitability

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

**Endura EX-2C Low VOC is formulated to exceed the Canadian automotive refinishing guidelines for VOC levels in colour coats.**



#### Surface Preparation

Can be directly applied to most surfaces that have been: degreased, sanded with 280 - 320 grit sandpaper, and prepared with appropriate Endura products.



#### Mixing Ratio

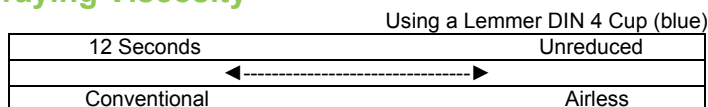
1 part by volume of component A  
1 part by volume of component B [FUB0112]  
The recommended temperature when mixed is 20-25°C (68-77°F).

#### 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.



#### Spraying Viscosity

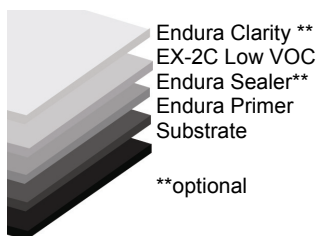


If required, recommended spraying viscosity is achieved by reducing up to 12% with Endura Topcoat Reducers.



#### 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	11-13 Thou	1,700-3,000 psi	





### EX-2C Low VOC Colour

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

#### Product Features

- ◆ 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
- ◆ VOC Compliant

#### Theoretical Solids Content:

Volume: 46%

#### Shelf Life\*

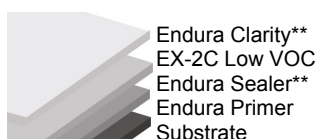
Component A: (3) years  
Component B: (1) year

\*For unopened product.

#### Pot Life of Mixed Product:

8-10 Hours\* @ 77°F (25°C) and 50% RH

\* Less when Endura Super Catalyst II is used.



Endura Clarity\*\*  
EX-2C Low VOC  
Endura Sealer\*\*  
Endura Primer  
Substrate

\*\*optional



#### Application Method

**Solid Colors:** Apply two single wet coats, heavier first coat followed up by a lighter second coat with 30 minutes between coats. On high solids primers and other absorbent solvent substrates, use greater care in achieving the required film build thickness.

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

\*Refer to the Super Catalyst II Data Sheet.



#### Recommended Film Build Thickness and Cover Rate

Endura EX-2C Low VOC has a recommended film thickness of 3.5 - 6.0 mils (90 - 150 microns) wet and 1.5 - 2.5 mils (38 - 65 microns) dry.

Theoretical coverage at 1.0 mil (25 microns) DFT: 736 ft<sup>2</sup> per gallon @ 100% transfer efficiency.

#### Drying Time\*

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

	20°C (68°F)	30°C (86°F)	40°C (104°F)
Dust Free	2 Hours	1 Hour	30 Minutes
Full Cure	7-14 Days		

\* Subject to ambient conditions (temperature and humidity) and good airflow. For improved scheduling 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	40 in. lbs: NO failure
Flexibility	ASTM D522	1/8" mandrel bend; NO failure
<b>VOC</b>	<b>All colours &lt; 420 grams/liter (3.5 lbs/gallon)</b>	



#### Clean Up

Endura high strength gun wash, Endura epoxy reducer or Endura EX-2C thinner.