ENDURA PAINT

VOC Compliant
Technical Data Sheet

Updated: Aug 2011

CLARITY Clear Coat

Endura Clarity is a clear coating designed to give extra protection to solid, metallic, and pearl colors. UV light absorbers provide exceptional ultraviolet light protection and increase the service life of all colors.

Product Features

- Excellent protection against acids and alkalies
- Exceptional ultraviolet light protection
- Exceptional abrasion resistance
- VOC Compliant

Theoretical Solids Content:
Volume: 40%

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 Clarity is suitable for protecting most finished surfaces including solid colors, metallic and pearl colors. It is suitable for use in many harsh chemical environments, providing extra protection against the effects of acid and acid rain.

Endura Clarity is formulated to meet the Canadian Automotive refinishing guidelines for VOC levels in clear coats.

Surface Preparation

Ensure that surfaces to be clear coated are free of flaws, surface contaminants and other imperfections. If the surface has been allowed to cure longer than 24 hours, sanding will be required to achieve intercoat adhesion. Sand topcoat lightly with 320-400 grit sandpaper or 3M medium (Red) Scuff Pads. **Do not sand Metallic or Pearl colors. Do not mix Clarity with color for final coat.**

Mixing Ratio

1 part by volume of component A [FUA0137]
1 part by volume of component B [FUB0501]
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*

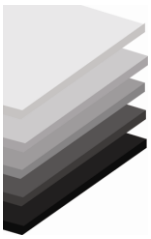
Using a Ford 4 Cup (white)

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.
Endura Clarity Low VOC has a lower viscosity than the original EX-2C formulation. A spray test should be done prior to reducing Clarity Low VOC.
If required, recommended spraying viscosity is achieved by reducing with Endura Low VOC topcoat reducers:
Max 10% with – Low VOC Topcoat Reducer- Regular [FTH0021]
Max 10% with – Slow Low VOC Topcoat Reducer- Slow [FTH0023]

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	1.2-1.6 mm	30-40 psi	
Pressure Feed	1.0-1.4 mm	55-65 psi	10-14 oz/min
Air Assist Airless	9-13 Thou	1,000-1,800 psi	
Airless	9-13 Thou	1,700-3,000 psi	



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

**optional

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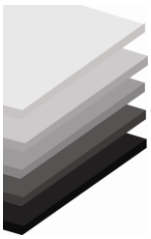

Endura Clarity
EX-2C Low VOC
Endura Sealer**
Endura Primer
Substrate

**optional

Application Method

Apply two wet coats, heavier first coat followed up by a lighter second coat with 30 minutes between coats.
Endura EX-2C Low VOC Topcoats require a drying time of 4 hours* for solid colors and 6 hours* for metallics, before application of Endura Clarity Clear.

*(@ 20°C (68°F)

Recommended Film Build Thickness and Cover Rate

Endura Clarity has a recommended film thickness of:

Wet (unreduced): 2.5 – 5.0 mils wet (62.5 – 125 microns)
Dry:1.0 - 2.0 mils dry (25 - 50 microns)

Theoretical coverage at 1.0 mil (25 microns) DFT: 640 ft² per gallon @ 100% transfer efficiency.

Drying Time*

	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) film build and good airflow.
For improved scheduling please contact your Endura representative.

Specifications

Hardness	ASTM D3363	4H
Solvent resistance	ASTM D4752	100 MEK rubs; NO failure
Abrasion resistance (1000 cycles CS-17)	ASTM D4060	25 mg loss
Impact resistance	ASTM D2794	80 in. lbs; NO failure
service temperature range**	-40° C to +182° C	-40° C to +182° C
Flexibility	ASTM D522	1/8” mandrel bend; NO failure
VOC	248 grams/liter (2.07 lbs/gallon)	

Clean Up

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