



## Clarity Low VOC Clear

### Technical Data Sheet (TDS)

#### Product Description

**Clarity Low VOC Clear** is a two component highly cross-linked, high performance polyester polyurethane clear coating. Endura Clarity Low VOC Clear is a clear coating designed to give extra protection to solid, metallic and pearl colors.

#### Product features:

- Excellent protection against acids and alkalis
- Exceptional ultraviolet light protection increasing service life
- Exceptional abrasion resistance
- VOC Compliant

#### Recommended Uses

Clarity Low VOC Clear is intended for industrial applications, either new build or maintenance. Clarity Low VOC Clear is suitable for application on EX-2C Topcoat.

#### Industries:

- Oilfield & Energy Services
  - Well Service Vehicles
  - Drilling
  - Tanks
- Cranes and Construction Equipment
- Waste and Recycling Industry
  - Garbage Trucks
- Trailers and Rolling Stock

#### Mix Ratio

1 part by volume of component A [FUA0137]  
1 part by volume of component B [FUB0112]

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

#### Product Characteristics

<b>Gloss:</b>	High: 90+ GU at 60°
<b>Volume Solids Mixed: (Unreduced)</b> FUA0137:FUB0112 (1:1)	40% ± 1%
<b>Pot Life:</b> (77°F (25°C) and 50% RH)	8-10 Hours
<b>Note: Pot life is reduced when Super Catalyst II is used</b>	
<b>VOC Mixed (Unreduced):</b> EPA Method 24 FUA0137:FUB0112 (1:1)	246 g/l 2.058 lb /gal
<b>VOC compliant below 250 g/l (2.083 lb/gal)</b>	
<b>Shelf Life:</b>	
<b>Component A</b>	3 years
<b>Component B</b>	2 years
<b>For unopened product (77°F (25°C))</b>	

#### Surface Preparation

Clarity Low VOC Clear can be applied on EX-2C Topcoat without sanding during the topcoat window.

Ensure that surfaces to be clear coated are free of flaws, surface contaminants and other surface imperfections.

If the EX-2C Topcoat has been allowed to cure longer than 24 hours, sanding will be required to achieve inter-coat adhesion. Sand the topcoat lightly with 400 grit sandpaper or Maroon /Grey Scuff Pads.

#### Note:

- **Do not sand metallic or pearl colors.**
- **Do not mix Clarity Clear with metallic color for final coat.**
- **Do not mix Clarity Clear into the final color coat on solid colors.** This may cause matching and repeatability issues.



## Clarity Low VOC Clear

### Technical Data Sheet (TDS)

#### Application Method

Clarity Low VOC Clear can be applied using most spray painting systems.

After application of EX-2C Topcoat wait for the following times before application of Clarity Clear:

Solid Colors	Metallic Colors
3-18 Hours	6-18 hours

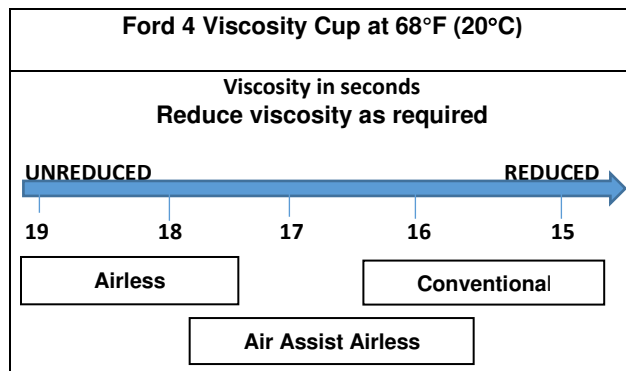
Apply two wet coats of Clarity Low VOC Clear. Apply a thinner first coat of Clarity Clear, followed by a heavier second coat. Allow up to 30 minutes between coats.

The use of Super Catalyst II with Endura Topcoats will accelerate drying times.

#### 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	

#### Spray Viscosity



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

Clarity Low VOC Clear has a lower viscosity than the original EX-2C Clear 100 formulation. A spray test should be done prior to reducing.

To maintain VOC compliance, if required, thin Clarity Low VOC Clear with Endura Low VOC topcoat Thinners/Reducers. The VOC content of the following Reducers:

Max 10% with FTH0021 – Low VOC Topcoat Thinner/Reducer  
Max 10% with FTH0023 – Slow Low VOC Topcoat Thinner/Reducer

#### Film Build

Clarity Low VOC Clear has a recommended film build thickness of:

<b>Wet: WFT Unreduced</b>	<b>2.5 – 5.0 mils</b>	<b>64 – 127 microns</b>
<b>Dry: DFT</b>	<b>1.0 – 2.0 mils</b>	<b>25 – 50 microns</b>

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



## Clarity Low VOC Clear

### Technical Data Sheet (TDS)

#### Dry Times

	68°F (20°C)	86°F (30°C)	104°F (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.

For best results surface temperature must be 86°F (30°C) or less before topcoating.

**The use of Super Catalyst II with Endura topcoats will accelerate drying times.**

**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.

#### 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 Gallons and 5 Gal Pails

2 Mixed Gallons		
<b>Comp A</b>	FUA0137-030	1 Gal.
<b>Comp B</b>	FUB0112-030	1 Gal.

10 Mixed Gallons		
<b>Comp A</b>	FUA0137-050	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.

For use outside this range please contact your Endura Representative.

#### Specifications

Hardness	ASTM D3363	4H
Solvent Resistance	ASTM D4752	100 MEK Rubs; No Failure
Impact resistance	ASTM D2794	80 in. lbs; NO failure
Taber Abrasion (1000 cycles CS-17)	ASTM D4060	25 mg loss
Flexibility	ASTM D522	1/8 mandrel bend: NO failure
Service Temp	-40°F to 360°F	-40°C to 182°C

#### Safety Precautions

Please refer to all Safety Data Sheets (SDS) before using this product. SDS sheets can be found on our website at [www.endurapaint.com](http://www.endurapaint.com).