

## DuraCoat Clear

### Technical Data Sheet (TDS)

#### Product Description

**Endura** DuraCoat is a two component epoxy modified polyurethane topcoat designed to provide extra protection against harsh chemical environments and providing extra protection against acids and acid rain.

#### Product features:

- High gloss
- Excellent protection against hydrochloric acid
- Outstanding resistance to chemicals
- Outstanding abrasion resistance
- Outstanding impact resistance
- Outstanding ultraviolet light protection

#### Recommended Uses

DuraCoat is intended for industrial applications; either new build or maintenance.

DuraCoat is suitable for is suitable for protecting most finished surfaces including clear and solid colors.

#### Industries:

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

#### Mix Ratio

2 parts by volume of component A [**FUA0207**]  
1 parts by volume of component B [**FUB0083**]

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

#### Product Characteristics

**Gloss:** High Gloss 90+ GU at 60 deg.

**Volume Solids Mixed:** 45% +/-1%

**Pot Life:** 3-6 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):  
**462 g/l (3.859 lb/gal)**

#### 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

DuraCoat Clear can be applied on EX-2C Topcoat colors without sanding during their 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 Scuff Pads.

#### Application Method

Apply two wet coats of DuraCoat Clear allowing up to 30 mins minutes between coats.

After application of EX-2C Topcoat wait:

#### Solid Colors:

**3 - 18 hours before applying Clear 100**

## DuraCoat Clear

### Technical Data Sheet (TDS)

**Note: Dry Times and wait 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.**

#### 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	

#### Spray Viscosity\*

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

**Note: Dry Times are subject to ambient conditions (temperature and humidity) and good airflow and mil build of the topcoat.**

If required, recommended spraying viscosity is achieved by reducing with one of the desired Endura topcoat thinner/ reducer

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

#### Film Build

Endura DuraCoat has a recommended film build thickness of:

**Wet (unreduced): 4.5 – 9.0 mils wet  
(115 - 225 microns)**

**Dry: 2.0 – 4.0 mils dry (50 – 100 microns)**

Theoretical coverage at 1.0 mil (25 microns)  
DFT: 725 ft<sup>2</sup> per gallon at 100% transfer efficiency.

#### 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>	7-9 Days	5-6 Days	3-4 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.**

**Note: If allowed to dry more than 24 hours and a subsequent coat is required sand with 400 grit sandpaper or Maroon Scuff Pads to achieve inter-coat adhesion.**

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

#### 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.

## DuraCoat Clear

### Technical Data Sheet (TDS)

#### Ordering Information (sizing)

Available in Gallons.

Other custom sizes may be available.

<b>3Gallons</b>		
<b>Comp A -2X</b>	FUA0207-030	1 Gal.
<b>Comp B</b>	FUB0083-030	1 Gal.

#### 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	4H
Solvent Resistance	ASTM D4752	100 MEK Rubs; NO Failure
Abrasion resistance (1000 cycles CS-17)	ASTM D4060	60 mg loss
Impact resistance	ASTM D2794	70 in. lbs; NO failure
Flexibility	ASTM D522	1/8 mandrel bend: NO failure

#### 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).