



UltraFlex Low VOC Topcoat

Technical Data Sheet (TDS)

Product Description

Endura UltraFlex Low VOC Topcoat is a two component highly cross-linked, high performance polyester polyurethane coating providing exceptional flexibility.

Product features:

- Exceptional flexibility
- Outstanding chemical resistance
- Outstanding abrasion resistance
- Outstanding impact resistance
- Adds extra protection against mechanical damage
- High Gloss
- A library of over 40,000 colors
- **VOC Compliant**

Recommended Uses

Endura UltraFlex Low VOC Topcoat is intended for industrial applications; either new build or maintenance.

UltraFlex 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

Mix Ratio

1 part by volume of component A [**CLRFXXXXX**]
(Part Number varies with color)

1 part by volume of component B [**FUB0141**]

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

Product Characteristics

Gloss: High Gloss 90+ GU at 60 deg.

Note : Slight gloss variations will occur depending on color

Volume Solids Mixed: 50 ± 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: 245 g/l (2.050 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

Endura UltraFlex 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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Note: The use of Super Catalyst II with Endura topcoats will accelerate drying times. SuperCat II should only be used when air drying. DO NOT USE SuperCat II if baking the finish.

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 70°F 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 UltraFlex Topcoat must be sanded to achieve inter-coat adhesion.

Note: Metallics 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.

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 5 Gal Pails

Other custom sizes may be available.

| 1 Quart | | |
|----------------------------|---------------|-------|
| Comp A | CLRFXXXXX-010 | 1 Pt. |
| Part numbers vary by color | | |
| Comp B | FUB0141-010 | 1 Pt. |

| 2 Quarts | | |
|----------------------------|---------------|-------|
| Comp A | CLRFXXXXX-020 | 1 Qt. |
| Part numbers vary by color | | |
| Comp B | FUB0141-020 | 1 Qt. |

| 2 Gallons | | |
|----------------------------|---------------|--------|
| Comp A | CLRFXXXXX-030 | 1 Gal. |
| Part numbers vary by color | | |
| Comp B | FUB0141-030 | 1 Gal. |

| 10 gallons | | |
|----------------------------|---------------|-------|
| Comp A | CLRFXXXXX-050 | 5 Gal |
| Part numbers vary by color | | |
| Comp B | FUB0141-050 | 5 Gal |



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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 | 20 mg loss varies by color |
| 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 -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.