

ENDURA PAINT UltraFlex

Technical Data Sheet

Endura Manufacturing Co. Ltd. TEL 1-800-661-9930

Updated: Nov 2011

Endura UltraFlex topcoat is an elastomeric, high performance polyurethane coating for protecting all surfaces. High gloss, color retention and outstanding resistance to chemicals and impact, provides maximum protection.

Product Features

- ◆ High gloss
- ◆ Excellent chemical resistance
- ◆ Adds extra protection against mechanical damage

Theoretical Solids Content:

Volume: 46% ±1%
Depending on colour

Shelf Life*

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

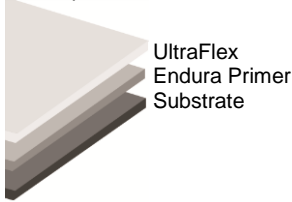
*For unopened product.

Pot Life of Mixed Product:

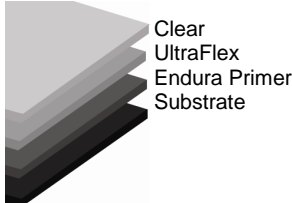
5-7 Hours** @ 77°F (25°C) and 50% RH

**Less if Endura Super Catalyst II is used.

As a topcoat



As a midcoat



Suitability

Endura UltraFlex topcoat is a highly flexible enhanced elastomeric performance coating for protecting all surfaces. It provides outstanding protection in most environments. Endura UltraFlex colour can be used as a topcoat or it can be topcoated with an Endura clear coat.



Surface Preparation

Endura UltraFlex can be directly applied to all surfaces that have been sand blasted, high pressure degreased, sanded with 240-280 grit sandpaper, and primed with the appropriate Endura Primer.



Mixing Ratio

1 part by volume of component A [part# varies by color]
1 part by volume of component B [FUB0022]

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

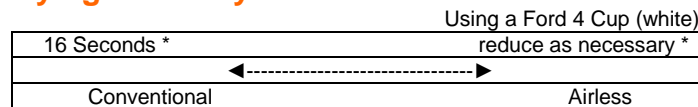
Environmental Conditions

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*



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



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	50-60 psi	10-14 oz/min
Air Assist Airless	9-17 Thou	1,000-1,800 psi	
Airless	11-13 Thou	1,700-3,000 psi	

Endura Manufacturing Co. Ltd. is committed to ongoing product development to provide the best products. New materials, production methods and design refinements are introduced into existing products without notice. For this reason, any current Endura product may differ in some respect from its published description. It is always warranted to equal or exceed the original design specifications, unless otherwise stated.

ENDURA PAINT UltraFlex

Technical Data Sheet

Endura Manufacturing Co. Ltd. TEL 1-800-661-9930

Updated: Nov 2011

Endura UltraFlex topcoat is an elastomeric, high performance polyurethane coating for protecting all surfaces. High gloss, color retention and outstanding resistance to chemicals and impact, provides maximum protection.

Product Features

- ◆ High gloss
- ◆ Excellent chemical resistance
- ◆ Adds extra protection against mechanical damage

Theoretical Solids Content:

Volume: 46% ±1%
Depending on colour

Shelf Life*

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

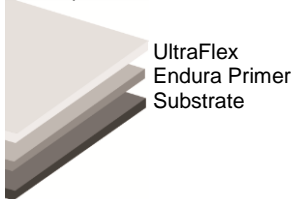
*For unopened product.

Pot Life of Mixed Product:

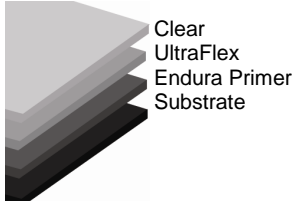
5-7 Hours** @ 77°F (25°C) and 50% RH

**Less if Endura Super Catalyst II is used.

As a topcoat



As a midcoat



Recommended Film Build Thickness and Cover Rate

Endura UltraFlex can be used as a topcoat or it can be top coated with an Endura clear coat.

UltraFlex Colour has a recommended film thickness of:

Wet (unreduced): 4.0 – 8.5 mils wet (150 – 262.5 microns)
Dry: 2.0 – 4.0 mils dry (50-100 microns)

UltraFlex Clear has a recommended film thickness of:

Wet (unreduced): 6.5 – 13.0 mils wet (162.5 – 325 microns)
Dry: 3.0 – 6.0 mils dry (75-150 microns)

Higher film builds will require multiple coats; please contact your Endura representative for information.

Theoretical coverage at 1.0 mil (25 microns) DFT: 736 ft² per gallon @ 100% transfer efficiency.



Drying Time*

After 24 hours, to achieve inter-coat adhesion please consult with your Endura representative.

	20°C (68°F)	30°C (86°F)	40°C (104°F)
1 st - 2 nd coat	20 - 60 Minutes		
Full Cure	7-9 Days	5-6 Days	3-4 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	2H
Solvent resistance	ASTM D4752	100 MEK rubs; NO Failure
Impact resistance	ASTM D2794	40 in. lbs: NO failure
Flexibility	ASTM D522	1/8" mandrel bend; NO failure
Abrasion resistance (1kg 1000 cycles CS-17)	ASTM D4060	>10 mg loss * varies by color
VOC	For VOC amounts please refer to the product MSDS	



Clean Up

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