



Guardian

Endura Guardian is a, low VOC, high solids, semi-gloss coating, that is surface tolerant providing good adhesion to damp surfaces.

Product Features

- ◆ Excellent water resistance
- ◆ Low temperature cure to 0°F (-18°C)
- ◆ Suitable for salt & fresh water immersion
- ◆ Excellent adhesion to tight rust
- ◆ Abrasion & chemical resistance is excellent
- ◆ High solids (high film build)
- ◆ No induction time
- ◆ VOC Compliant

Theoretical Solids Content:

Volume: 68%

Shelf Life*

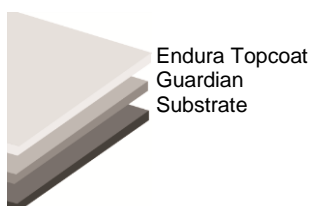
Component A: (3) years
Component B: (1) year

*For unopened product.

Pot Life of Mixed Product:

4.5 Hours @ 77°F (25°C) and 50% RH

*For extended pot life phone Endura technical dept.



Suitability

Endura Guardian is suitable for use on properly prepared steel, aluminum or masonry surfaces including immersion (non-potable water) service. Endura Guardian can also be used as an intermediate coat.

Endura Guardian is formulated to exceed the Canadian Automotive refinishing guidelines for VOC levels in primers.



Surface Preparation

Commercial sandblasting or machine sanding with 40 grit sandpaper is acceptable for most applications.

For Aluminum surfaces:

- 1) acid etch; i.e. Endura Neutralizer 20, Endura Aluminum Cleaner, etc... or use
- 2) Endura MetaLink



Mixing Ratio

4 parts by volume of part A [FEA0111]

1 part by volume of part B [FEB0111]

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)	
22- 23 Seconds	reduce as necessary *
Conventional	Airless

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

To maintain VOC compliance thin Guardian with Endura Low VOC Epoxy Reducers.

[FTH0016] Low VOC Epoxy Reducer- Regular (VOC = 0 g/L, 0 lbs/gal)

[FTH0027] Low VOC Epoxy Reducer- Slow (VOC = 0 g/L, 0 lbs/gal)



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	1.6-1.8 mm	30-40 psi	
Pressure Feed	1.4-1.8 mm	50-60 psi	12-16 oz/min
Air Assist Airless	11-13 Thou	1,000-1,800 psi	
Airless	11-13 Thou	1,700-3,000 psi	



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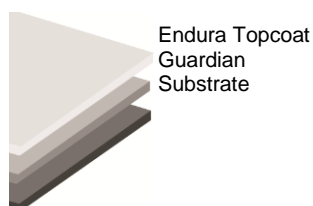
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Endura Topcoat
Guardian
Substrate



Recommended Film Build Thickness and Cover Rate

Endura Guardian has a recommended film build thickness of:
Wet (unreduced): 6.0 – 12.0 mils wet (150 – 300 microns)
Dry: 4.0-8.0 mils (100-200 microns) DFT.

Theoretical coverage at 1.0 mil (25 microns) dry: 1088 ft² per gallon @ 100% transfer efficiency.



Drying Time*

	20°C (68 °F)	30°C (86°F)	40°C (104°F)
Min. Recoat (5 mils)	6-10 Hours	5 Hours	3 Hours
Max. Recoat (self)	7 Days		
Max. Recoat (EX2C)	7 Days		
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

Solvent Resistance	ASTM D4752	50 MEK rubs: NO Failure
Impact resistance	ASTM D2794	40 in.lbs: NO Failure
service temperature range**	-40°C to +121°C	-40°F to 250°F
VOC	223 grams/liter (1.86 lbs/gallon)	



Clean Up

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

Notes

Limitations of use: Exterior exposure will cause a color change, early dulling, and loss of gloss, but this does not affect protection properties. GUARDIAN is commonly finished with ENDURA EX2C topcoats for maximum exterior color & gloss retention. **Do not use for fuel or solvent immersion.**