

UltraGrip HFE3080 Zinc Rich Primer

Endura UltraGrip HFE3080 is a reinforced inorganic zinc primer that is HAPS Free and low VOC. It contains 80% zinc in the dry film to provide galvanic protection.

Product Features

- ◆ Excellent corrosion protection
- ◆ High solids formulation fills a sandblast profile in one coat
- ◆ HAPS Free
- ◆ Low VOC
- ◆ Provides galvanic protection

Theoretical Solids Content:

Volume: 58%

Shelf Life*

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

*For unopened product.

Pot Life of Mixed Product:

10 Hours @ 77°F (25°C) and 50% RH



Suitability

Endura UltraGrip HFE3080 provides superior adhesion, impact resistance and corrosion protection over carbon steel surfaces.



Surface Preparation

Commercial sandblasting or machine sanding with 40 grit sandpaper is acceptable for most applications. Sandblast media, mesh size 16/30 or 30/50 or LG50 Steel shot.



Mixing Ratio

5 parts by volume of part A [FEA0053]
1 part by volume of part B [FEB0041]

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

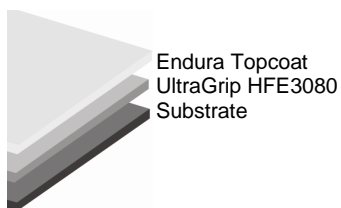
Using a Lemmer DIN 4 Cup (blue)

18 Seconds	40 Seconds
Conventional	Airless



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	9-17 Thou	1,000-1,800 psi	
Airless	13-15 Thou	1,700-3000 psi	



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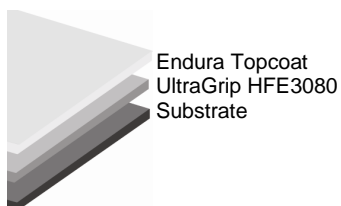
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Application Method

Endura UltraGrip HFE3080 can be applied using most spray systems, although electrostatic sprayers are not recommended. Under normal conditions, it has a topcoat window 3-72 hours.

Recommended Film Build Thickness and Cover Rate

Endura UltraGrip HFE3080 has a recommended film build thickness of 3.5 – 8.5 mils wet; 2.0-5.0 mils dry (50-125 microns).

Theoretical coverage at 1.0 mil (25 microns) DFT: 928 ft² per gallon @ 100% transfer efficiency.



Drying Time*

	20°C (68°F)	30°C (86°F)	40°C (104°F)
Topcoat	3-15 Hours	1 Hours	30 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

Solvent resistance	ASTM D4752	50 MEK rubs: No Failure
Impact resistance	ASTM D2794	40 in-lbs; NO Failure
Salt-spray resistance (1000 hours)	ASTM D119	No blistering, cracking or delamination of film. No more than 3/16 inch rust



Clean Up

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

Packaging

Endura UltraGrip HFE3080 is sold in kits which make up 1 gallon or 4 gallons of sprayable product.