

## UltraGrip Primer

### Technical Data Sheet (TDS)

#### Product Description

**UltraGrip Primer** is a high solid, reinforced inorganic zinc primer. It provides superior adhesion and cathodic corrosion protection.

#### Product features:

- Gives cathodic corrosion protection
- Formulated to use where high impact resistance is required
- Ability to fill sandblast profile in one coat
- High solids formulation
- No induction time required

#### Recommended Uses

UltraGrip Primer is intended for industrial applications, either new build or maintenance. It is suitable for application on properly sanded or sandblasted steel and for properly prepared galvanized or zinc coated substrates. This primer must be topcoated to achieve the best results.

#### Industries:

- Oilfield & Energy Services
- Cranes and Construction Equipment
- Trailers and rolling stock
- Waste and Recycling Industry

#### Product Characteristics

<b>Finish:</b> Lo Gloss	
<b>Volume Solids Mixed: (Unreduced)</b> <b>FEA0003: FEB0003 (5:1)</b>	60% ± 1%
<b>Pot Life:</b> (77°F (25°C) and 50% RH)	10 Hours
<b>VOC Mixed (Unreduced):</b> EPA Method 24 <b>FEA0003:FEB0003 (5:1)</b>	353 g/l 2.948 lb /gal
<b>Shelf Life: For unopened product (77°F (25°C))</b>	
<b>Component A</b>	3 years
<b>Component B</b>	2 years

#### Surface Preparation

Surface must be free of all contaminants such as dust, oil, grease, and salt. It is recommended that all steel and other ferrous surfaces be sandblasted a minimum of SSPC- SP6 or mechanically sanded with 80 grit sandpaper. For optimal corrosion protection the surface should be sandblasted to SSPC-SP5 or SSPC-SP10 (White or Near White Blast).

For all other substrates, refer to the Endura recommended surface preparation instruction sheets or contact your Endura Representative.

#### Mix Ratio

5 parts by volume of component A [**FEA0003**]  
1 part by volume of component B [**FEB0003**]

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

#### Application Method

UltraGrip Primer can be applied using most spray-painting systems, although electrostatic sprayers are not recommended. Apply 1-2 coats as required to achieve the desired film thickness. Allow sufficient flash time between coats especially with higher film builds applied (20-30 minutes).

**Agitation is not required while spraying; the zinc is fully suspended in the coating.**

Spray Gun Setup			
Feed Type	Fluid Tip	Application Pressures (heel of gun)	Fluid Delivery
<b>Siphon Feed</b>	1.6-1.8 mm	40-50 psi	
<b>Gravity Feed</b>	1.6-1.8 mm	30-40 psi	
<b>Pressure Feed</b>	1.4-1.8 mm	40-50 psi	10-14 oz/min
<b>Air Assist Airless</b>	13-17 Thou	1,000-1,800 psi	
<b>Airless</b>	13-17 Thou	1,700-3,000 psi	

Suggested Viscosity Ranges Ford 4 Viscosity Cup at 68°F (20°C)	
<b>Airless</b>	41 - 60 secs
<b>Air Assist Airless</b>	39 - 42 secs
<b>Conventional</b>	38 - 41 secs

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

Recommended spraying viscosity is achieved by reducing with one of the following Endura Epoxy reducers up to 25% by volume.

- [FTH0654] Epoxy Reducer - Fast
- [FTH0653] Epoxy Reducer - Regular
- [FTH0652] Epoxy Reducer - Slow

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### Film Build

UltraGrip Primer recommended film thickness:

<b>Wet: WFT Unreduced</b>	5.0 – 8.5 mils	127 – 216 microns
<b>Dry: DFT</b>	3.0 – 5.0 mils	76 – 127 microns

The recommended dry film thickness is above the blast/sanding profile.

Theoretical coverage at 1.0 mil (25 microns)  
DFT: 961 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>Topcoat</b>	3 Hours	2 Hours	1-2 Hours
<b>Full Cure</b>	7-9 Days	5-6 Days	3-4 Days

Dry Times are subject to ambient conditions (temperature and humidity), good airflow and film build of primer.

For best results surface temperature must be 86°F (30°C) or less before topcoating. Maximum re-coat window without sanding is 3 Days at 68°F (20°C). Mechanical sanding with 180 – 220 grit sandpaper is recommended after exceeding the recoat window.

For questions about scheduling please contact your Endura Representative.

### Topcoating Information

UltraGrip Primer can be topcoated with the entire range of Endura topcoat products.

### 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 solvents

### Ordering Information (sizing)

<b>UltraGrip Primer</b>	<b>1 mixed gallon (3.78l)</b>	
<b>Comp A – Dk Zinc Green</b>	<b>FEA0003-035</b>	<b>3.15 l</b>
<b>Comp B</b>	<b>FEB0003-022</b>	<b>0.63 l</b>
<b>UltraGrip Primer</b>	<b>5 mixed gallons (18.9l)</b>	
<b>Comp A - Dk Zinc Green</b>	<b>FEA0003-055</b>	<b>15.75 l</b>
<b>Comp B</b>	<b>FEB0003-035</b>	<b>3.15 l</b>

Other custom sizes may be available.

### 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.

For use outside this range please contact your Endura Representative.

### Specifications

<b>Solvent Resistance</b>	ASTM D4752	100 MEK Rubs; NO Failure
<b>Impact Resistance</b>	ASTM D2794	40 in. lbs; NO Failure
<b>Flexibility</b>	ASTM D522	1/4 in. mandrel bend: NO failure
<b>Service Temp Range</b>	-40°F to 250°F	-40°C to 121°C
<b>Percentage of zinc in the dry film</b>	36%	

### Safety Precautions

Please refer to all Safety Data Sheets (SDS) before using this product. SDS sheets can be found on our website at [www.endurapaint.com](http://www.endurapaint.com).