

UltraGrip Primer

Technical Data Sheet (TDS)

Product Description

Endura UltraGrip Primer is a high solids surface tolerant, 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

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

Industries:

- Oilfield & Energy Services
 - Well Service vehicles
 - Drilling
- Cranes and Construction Equipment
- Waste and Recycling Industry
 - Garbage Trucks

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).

Product Characteristics

Finish: Low Gloss

Volume Solids Mixed: 60% +/- 1%

Pot Life: 10 Hours at 77°F (25°C) and 50% RH

VOC Mixed (Unreduced) (EPA Method 24):

Grey: 345 g/l (2.876 lb/gal)

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

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; Optimally for the best corrosion protection it should be SSPC- SP5 SSPC- SP10 (White or Near white Blast) or mechanically sanded with 80 grit sand paper.

All other substrates refer to the Endura recommended surface preparation instruction sheets or contact your Endura representative.

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 (20-30mins)

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

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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	40-50 psi	10-14 oz/min
Air Assist	13-17 Thou	1,000-1,800 psi	
Airless	13-17 Thou	1,700-3,000 psi	

Spray Viscosity

Using a Ford 4 Cup (White)

23 Seconds	Reduce as necessary
Conventional	Airless

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

If required, thin UltraGrip Primer with Endura Epoxy Reducers.

[FTH0654] Epoxy Reducer - Fast (for use in lower ambient temps)

[FTH0653] Epoxy Reducer - Regular (for use in average temps)

[FTH0652] Epoxy Reducer - Slow (for use in higher ambient temps)

Film Build

Endura UltraGrip Primer has a recommended film build thickness of:

**Wet (unreduced): 5.0 – 8.0 mils wet
(127 – 203 microns)**

Dry: 3.0 – 5.0 mils DFT (76 – 127 microns)

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

Theoretical coverage at 1.0 mil (25 microns)
DFT: 961 ft² per gallon at 100% transfer efficiency.

Dry Times

	68°F (20°C)	86°F (30°C)	104°F (40°C)
Topcoat	3 Hours	2 Hours	1-2 Hours
Full Cure	7-9 Days	5-6 Days	3-4 Days

Note: Dry Times are subject to ambient conditions (temperature and humidity) and 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)

Recommended Sanding 180 – 220 grit after the topcoat window has been exceeded.

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

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Ordering Information (sizing)

Available in Gallons and Pails
Other custom sizes may be available.

1 Gallon Kits:		
Comp A - Grey	FEA0003-035	3.15L
Comp B	FEB0003-022	0.63L

5 Gallon Kits:		
Comp A - Grey	FEA0003-053	15.75L
Comp B	FEB0041-035	3.15L

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

Solvent Resistance	ASTM D4752	50 MEK Rubs; NO Failure
Impact resistance	ASTM D2794	40 in. lbs; NO Failure
Flexibility	ASTM D522	3/8 mandrel bend; NO Failure
Percentage of zinc in the dry film		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.endura.ca.