

Intermix 2:1 Primer

Technical Data Sheet (TDS)

Product Description

Intermix 2:1 Primer is a medium solid, low to medium build, two-component, epoxy primer providing excellent adhesion, hardness, and corrosion resistance.

Product features:

- No induction time required
- Can be topcoated in 1 hour
- 7-day topcoat window
- Available in various colors

Recommended Uses

Intermix 2:1 Primer is intended for industrial applications; either new build or maintenance. It is suitable for application on steel, aluminum, and fiberglass substrates. This primer must be topcoated to achieve the best results.

Intermix 2:1 is not recommended in thin films as a sealer.

Industries:

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

Product Characteristics

Finish: Lo Gloss	
Volume Solids Mixed: (Unreduced) FEA0170: FEB0179 (2:1)	46% ± 2%
Volume solids will vary by color	
Pot Life: (77°F (25°C) and 50% RH)	10 Hours
VOC Mixed (Unreduced):EPA Method 24 FEA0170:FEB0179 (2:1)	473 g/l 3.948 lb /gal
VOC content will vary with each color	
Shelf Life: For unopened product (77°F (25°C))	
Component A	3 years
Component B	2 years

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 cleaned to a minimum of SSPC- SP6 or mechanically sanded with 80 grit sandpaper.

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

Mix Ratio

2 parts by volume of component A **[FEAXXXX]**
[Part Number varies with color]
1 part by volume of component B **[FEB0179]**

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

Application Method

Intermix 2:1 Primer can be applied using most spray-painting systems. 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).

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	10-14 oz/min
Air Assist Airless	9-15 Thou	1,000-1,800 psi	
Airless	9-13 Thou	1,700-3,000 psi	

Suggested Viscosity Ranges Ford 4 Viscosity Cup at 68°F (20°C)	
Airless	32 -55 secs
Air Assist Airless	30 -33 secs
Conventional	30 -32 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 20% by volume.

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

Film Build

Intermix 2:1 Primer recommended film thickness:

Wet: WFT Unreduced	4.5 – 8.5 mils	114 – 216 microns
Dry: DFT	2.0 – 4.0 mils	51 – 102 microns

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

Theoretical coverage at 1.0 mil (25 microns).
DFT: 731 ft² per gallon at 100% transfer efficiency.

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Dry Times

	68°F(20°C)	86°F(30°C)	104°F(40°C)
Topcoat	1 Hour	55 Minutes	45 Minutes
Full Cure	7-9 Days	5-6 Days	3-4 Days

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 7 days at 68°F (20°C) Mechanical sanding with 180 – 220 grit sandpaper is recommended after exceeding the recoat window for inter-coat adhesion.

Intermix 2:1 Primer is difficult to sand. If extensive sanding is required, we recommend EP Sandable Primer.

If the primer is allowed to sit for an extended period without being topcoated, the surface must be kept clean of contaminants to avoid any topcoat issues.

For improved scheduling please contact your Endura Representative.

Topcoating Information

Intermix 2:1 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 solvent.

Ordering Information (sizing)

Intermix 2:1 Primer		1.5 mixed gallons (5.7l)
Comp A - Grey	FEA0170-030	1 gallon (3.78l)
Comp A - Black	FEA0171-030	1 gallon (3.78l)
Comp A - White	FEA0204-030	1 gallon (3.78l)
Comp B-2X	FEB0179-020	1 quart (946ml)

Intermix 2:1 Primer		4.5 mixed gallons (17.0l)
Comp A - Grey	FEA0170-053	3 gallons (11.34l)
Comp A - Black	FEA0171-053	3 gallons (11.34l)
Comp A - White	FEA0204-053	3 gallons (11.34l)
Comp B-1X Plus	FEB0179-030	1 gallon (3.78l)
Comp B - 2X	FEB0179-020	1 quart (946ml)

Other custom sizes may be available.

Environmental Conditions

For optimum coating performance, the 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

Solvent Resistance	ASTM D4752	100 MEK Rubs; NO Failure
Impact resistance	ASTM D2794	30 in. lbs; NO Failure
Flexibility	ASTM D522	1/4 in. mandrel bend: NO failure
Service Temp Range	-40°F to 250°F	-40°C to 121°C

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.