

EP Sandable Low VOC Primer

Technical Data Sheet (TDS)

Product Description

EP Sandable Low VOC Primer is a medium solids, medium build, two-component, epoxy primer providing excellent adhesion, hardness and corrosion resistance.

Product features:

- Can be topcoated in 1-2 hours
- No induction required
- Next shift sandability (min. 4 hours)
- VOC Compliant

Recommended Uses

EP Sandable Low VOC 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.

Industries:

- Oilfield & Energy Services
- Cranes and Construction Equipment
- Trailers
- Waste and Recycling Industry
- Marine (above the water line)

Product Characteristics

Finish: Lo Gloss	
Volume Solids Mixed: (Unreduced) FEA0380: FEB0380 (3:1)	51% ± 1%
Pot Life: (77°F (25°C) and 50% RH)	10 Hours
VOC Mixed (Unreduced): EPA Method 24 FEA0380: FEB0380 (3:1)	241 g/l 2.017 lb /gal
Shelf Life: For unopened product (77°F (25°C))	
Component A	3 years
Component 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 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

3 parts by volume of component A **[FEA0380]**
1 part by volume of component B **[FEB0380]**

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

Application Method

EP Sandable Low VOC Primer can be applied using most spray 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).

Spray Gun Setup			
Feed Type	Fluid Tip	Application Pressures (heel of gun)	Fluid Delivery
Siphon Feed	1.6-2.0 mm	40-50 psi	
Gravity Feed	1.6-2.0 mm	30-40 psi	
Pressure Feed	1.4-2.0 mm	50-60 psi	10-14 oz/min
Air Assist Airless	9-17 Thou	1000-1800 psi	
Airless	11-15 Thou	1700-3000 psi	

Suggested Viscosity Ranges Ford 4 Viscosity Cup at 68°F (20°C)	
Air Assist Airless	45 - 50 secs
Conventional	44 - 46 secs
Airless	47 - 60 secs

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

If required, recommended spraying viscosity is achieved by reducing with one of the following Endura Low VOC Epoxy reducers. These will maintain VOC compliance of EP Sandable Low VOC Primer.

[FTH0016] Low VOC Epoxy Reducer - Regular
[FTH0027] Low VOC Epoxy Reducer - Slow

Film Build

EP Sandable Low VOC Primer recommended film thickness:

Wet: WFT Unreduced	6.0 – 10.0 mils	152 – 254 microns
Dry: DFT	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: 820 ft² per gallon at 100% transfer efficiency.



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Dry Times

	20°C (68°F)	30°C (86°F)	40°C (104°F)
Topcoat	1-2 Hours	1 Hour	45 Minutes
To Sand	Optimal: 8 Hours Minimum: 4 Hours		

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.

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

EP Sandable Low VOC 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)

EP Sandable Low VOC Primer		1 mixed gallon (3.78l)
Comp A - Grey	FEA0380-033	3 quarts (2.84l)
Comp B	FEB0380-020	1 quart (946ml)

EP Sandable Low VOC Primer		4 mixed gallons (15.1l)
Comp A - Grey	FEA0380-053	3 gallons (11.34l)
Comp B	FEB0380-030	1 gallon (3.78l)

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

Solvent Resistance	ASTM D4752	100 MEK Rubs; NO failure
Impact Resistance	ASTM D2794	40 in. lbs; NO failure
Flexibility	ASTM D522	1/4 mandrel bend: NO failure
Service Temp Range	-40°F to 200°F	-40°C to 93°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