

## EP HiBuild Primer Concrete Floors

### Technical Data Sheet (TDS)

#### Product Description

**EP HiBuild Primer** is a high solid, high build, two-component epoxy primer. EP HiBuild Primer is ideally suited is designed as a multi-mil coating for use on concrete floors in garages, warehouses and in industrial shops.

#### Product features:

- Proven for heavy industrial applications
- Waterproof capability at 10 mils dry film thickness
- High solids provide quick film build
- Excellent alkali and salt spray resistance

#### Recommended Uses

EP HiBuild Primer is ideally suited for heavy industrial uses and/or waterproofing requirements. EP HiBuild Primer when used on a concrete floor is topcoated with Endura EX-2C C.C. Topcoat specially formulated for concrete floor applications.

#### Industrial Applications:

- Industrial Warehouse Floors
- Garage Floors
- Automotive Shop Floors
- Aircraft Hanger Floors
- Chemical Plant Floors

#### Mix Ratio

4 parts by volume of component A [**FEAXXXX**]  
(Part Number varies with color)  
1 part by volume of component B [**FEB0275**]  
1 part by volume Epoxy Reducer [**FTHXXXX**]

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

Thinning will depend on ambient conditions.

If extra thinning is required, use one of the following Endura Low VOC Epoxy reducers.

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

#### Product Characteristics

<b>Finish:</b>	Medium Gloss
<b>Volume Solids Mixed: (Unreduced)</b> FEA0274: FEB0275 (4:1)	73% ± 2%
Volume solids will vary by color	
<b>Pot Life:</b> (77°F (25°C) and 50% RH)	6 Hours
<b>VOC Mixed (Unreduced):</b> EPA Method 24 FEA0274: FEB0275 (4:1)	245 g/l 2.048 lb /gal
VOC content will vary with each color Note: All colors are below 250g/l.	
<b>Shelf Life:</b>	
<b>Component A</b>	3 years
<b>Component B</b>	2 years
For unopened product (77°F (25°C))	

#### Surface Preparation

**Concrete:** Concrete floors should be shot blasted or acid etched. For acid etching concrete floors use muriatic acid, mixed at a ratio of 1 part acid to 5 parts water, by volume. Rinse the floor thoroughly with clean water after etching and dry completely.

Force dry the floor; the concrete must be completely dry before it is coated with primer.

**Note: Concrete Floors should be cured for a minimum of 30 days prior to coating application.**

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

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#### Application Method

##### Application Equipment for Concrete Floors

A short (1/8") pile roller should be used. A squeegee may be used for initial spreading, and then the product should be rolled.

The floor temperature must be maintained at a minimum of 15° (60°F) and the relative humidity should not exceed 50%.

Mix only enough material that can be applied within 1 hour. Do not mix large volumes of EP Hi Build as they are very exothermic and will reduce overall pot-life.

The EP HiBuild should be applied in 2 thinner coats to achieve the desired film build and avoid solvent entrapment.

Pour 1 quart (0.95 liter) of mixed primer onto the floor and roll it out to approximately 100-150 square feet (9.6 -14.6 sq. m./liter).

Allow 2-3 hours between coats.

After the dry time, pour 1 quart (0.95 liter) of mixed primer onto the EP HiBuild surface and roll out once again to 100-150 square feet (9.6 -14.6 sq. m./liter). This will result in the recommended film build of 4.0 - 6.0 mils dry (100 - 150 microns).

The EP HiBuild will be soft after the 2-3 hours dry so tread lightly on the surface during application of the second coat. Wearing either spiked shoes or running shoes will limit the surface imperfections.

**Refer to the Concrete Floor Coating System Guide for complete instructions.**

#### Film Build

EP HiBuild Primer has a recommended film build thickness of:

<b>Wet: WFT Unreduced</b>	<b>5.5 – 8.0 mils</b>	<b>140 – 203 microns</b>
<b>Dry: DFT</b>	<b>4.0 – 6.0 mils</b>	<b>102 – 152 microns</b>

Theoretical coverage at 1.0 mil (25 microns)  
DFT: 1171 ft<sup>2</sup> per gallon at 100% transfer efficiency.

The EP HiBuild Primer total coverage should be 50 - 75 sq. ft./quart (4.8 - 7.3 sq. m./liter). This will result in a film build of 4.0 - 6.0 mils dry (100 - 150 microns).

The smaller the coverage area the greater the abrasion resistance due to increased coating thickness.

#### Dry Times

<b>Dry Film Thickness 4.0 – 6.0 mils (102 – 152 microns)</b>	<b>68°F (20°C)</b>
<b>Dry to touch</b>	6 - 10 Hours
<b>Walk-on</b>	36 – 48 Hours
<b>Heavy Traffic</b>	4 Days
<b>Full Cure</b>	7-14 Days

**Note: 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 24 Hrs. at 68°F (20°C)

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

**For questions about scheduling please contact your Endura Representative.**

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#### Topcoating Information

EP HiBuild Primer should be be topcoated with the EX-2C C.C. Topcoat for maximum performance.

Important Note: Apply EX-2C C.C. Topcoat within 24 hours of primer application

**Please see the Concrete Floor Coating System Guide for complete instructions.**

#### 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)

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

5 Mixed Quarts		
Comp A – Std White	FEA0270-030	1 Gal.
Comp A – Warm Grey	FEA0274-030	1 Gal.
Comp A - Std Black	FEA0273-030	1 Gal.
Comp B	FEB0275-020	1 Qt.

5 Mixed Gallons		
Comp A – Std White	FEA0270-054	4 Gals.
Comp A – Warm Grey	FEA0274-054	4 Gals.
Comp A - Std Black	FEA0273-054	4 Gals.
Comp B	FEB0275-020	1 Gal.

#### 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	100 MEK Rubs; 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](http://www.endurapaint.com).