

# Epoxy/Urethane Concrete Coating System

Endura offers a coating system for concrete floors consisting of an epoxy primer and a urethane topcoat. It can be used on garage, warehouse and machine shop floors. It provides outstanding chemical and abrasion resistance. Endura EP HiBuild Floor is used as the Primer and it is topcoated with EX-2C Concrete topcoat.

**Product List:**

EP HiBuild Floor  
EX-2C Concrete

**Recommended info:**

EP HiBuild Floor  
TDS and MSDS  
EX-2C Concrete  
TDS & MSDS

**Additional Information:**

It is critical that the floor be dry before the EP HiBuild epoxy floor primer is applied. Moisture on the surface can cause adhesion problems.

The datasheets and instructions for both EP HiBuild floor primer and EX-2X concrete topcoat have been specifically tailored for flooring applications, for other substrates please see the general datasheets available at [www.endura.ca](http://www.endura.ca).

**QUESTIONS?**  
**PLEASE CONTACT US.**  
1-800-661-9930  
[info@endura.ca](mailto:info@endura.ca)

## EP HiBuild Epoxy Primer Application

The Following guide provides detailed application information for coating concrete floors with the Endura Epoxy/Urethane Coating System.

### Primer 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.

### Primer Application Method

Pour 1 liter of mixed primer onto the floor and roll it out to the desired coverage. (Between 50 and 100 ft<sup>2</sup> per liter)

Apply 3.5 -7.0 mils DFT (45-90 ft<sup>2</sup>/liter) for general use. Apply EX-2C concrete topcoat between 24 and 72 hours after primer application.

### Coverage

45 ft<sup>2</sup>/liter at 7.0 Mil DFT  
90 ft<sup>2</sup>/liter at 3.5 Mil DFT

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

### Application temperatures

Substrate: 15° to 30°C (60° to 90°F)  
Ambient: 15° to 30°C (60° to 90°F)

The floor temperature must be maintained at a minimum of 15°C (60°F). Relative humidity should not exceed 85%.

### Primer Application Equipment

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

### Topcoating

Endura EP HiBuild concrete primer may be topcoated after a 24 hour flash off period, at normal temperatures. For best general service (weathering, gloss retention and chemical resistance) topcoat with EX-2C concrete topcoat.

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## EX-2C Concrete Topcoat Application

Sanding of the EP HiBuild primer is not normally required before application of the EX-2C concrete topcoat or between coats of primer.

However, scuff sanding to remove surface imperfections will result in a superior surface appearance.

If the primer coating is left more than 72 hours it will have to be scuffed with 120 – 150 grit sandpaper before refinishing.

### Topcoat Surface Preparation

Ensure that the surface is free of flaws, nibs or imperfections. If large imperfections exist after primer coat use 120-150 grit sandpaper to remove them. Use a vacuum cleaner to remove all dust from the surface.

### Application Temperatures

Normal application conditions should be about 20°C (68°F) at 50% relative humidity. It is important that the temperature of the mixed paint be between 20°-25° C as temperature can greatly affect viscosity.

Substrate temperature should not be lower than 7°C (45°F) or higher than 30°C (86°F).  
Note: Above or below normal conditions will decrease or increase the length of drying time respectively.

**DO NOT** apply when the surface is less than 3°C (5°F) above the dew point.

### Topcoat Application Method

Mix component A thoroughly. Check to ensure correct color.

**For Spraying:** Mix ONE part EX-2C component "A" with ONE part EX-2C component "B", by volume.

*Example: mix 4 liters of "A" with 4 liters of "B" to cover approximately 800-1200 ft<sup>2</sup> depending on thickness of coating.*

**For Rolling:** Mix TWO parts EX-2C component "A" with ONE part EX-2C Special component "B", by volume, with ONE part EX-2C slo thinner, by volume.

Pour 1 liter of mixed product on the floor and roll it out to the desired coverage (between 50-100 ft<sup>2</sup>)

### Topcoat Application Equipment

Use a short (1/8") pile roller. For areas over 1000 ft<sup>2</sup> use a squeegee to initially spread out the urethane coating then back roll with the short pile roller.

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### Curing Rate:

Based on 2 Mills (50 Microns) DFT. Curing rate will be longer if thicker films are applied.

Dry To Touch: 6 -10 Hours  
Tack Free: 8 -24 Hours  
Hard Dry: 24 - 48 Hours  
Full Cure: 7 -14 Days

### Tape Application

Under normal conditions, EX-2C Concrete Topcoat generally does not tape mark after 16 – 24 Hours.

### Additional Colors

Stripes or trim colors can be applied after an 8 – 16 hour drying period. After masking, lightly scuff sand color with 180 grit sandpaper, or scuff sand with abrasive pad.

Alternate Method: Apply trim color slightly wider than final width, allow to dry 8 – 12 hours (less if Super Catalyst II was used), mask off and scuff sand as above and apply next color coat.

### Signs and Decals

Sign painting and lettering should be done as soon as possible (8 – 16 hours after the last coat was applied). Decals should not be applied for 7 – 14 days.

### Cleaning Instructions

Surfaces coated with Endura EX-2C concrete topcoat should be allowed to dry hard (usually 12 – 24 hours) before even a gentle cold water wash or rinsed is carried out. The complete cure of Endura coatings takes between 15-30 Days (depending on temperature, humidity etc...) **DO NOT USE** hot water or pressure wash for 30 days. There is a risk of water spotting, delamination or blistering of the coating. Protect the paint surface from rain, condensation (dew), or sudden exposure to high heat for at least 24 hours after painting.

### Storage

Keep materials away from open flames or sparks. Keep containers tightly closed and whenever possible keep shop temperatures between 15° & 20°C (58° & 68°F). In case of spillage, absorb and then dispose of in accordance with local applicable regulations.

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### Personal Protection

**Consult relevant MSDS information**

Use Endura EP HiBuild concrete primer only with adequate ventilation to minimize exposure to vapor and spray mist. Use Endura EX-2C concrete topcoat only with adequate ventilation to minimize exposure to vapor and spray mist. Where very good mechanical ventilation exists, wear organic vapor/particulate respirator (US Bureau of Mines BE-23NIOSH 23C or equivalent) during application and until work area has been exhausted of all vapors and spray mist. If ventilation is poor, wear fresh air supplied respirator (US Bureau of Mines Type C or equivalent).

**Warning****Vapor and spray mist is harmful**

**May cause lung irritation and allergic respiratory reaction**

**May irritate the skin**

**Combustible (flammable)**

A fresh air supplied respirator is the only acceptable type of respiratory protection for solvent vapor and spray mist. This should be well fitting and regularly serviced. Wear goggles or a full face mask and gloves or protective creams and disposable coveralls.

**First Aid**

- ◆ If affected by inhalation of vapor or spray mist, remove to fresh air.
- ◆ If breathing difficulty persists or occurs later, consult a physician and have information available.
- ◆ In case of eye contact, flush immediately with plenty of cold water for 15 minutes.
- ◆ In case of skin contact, wash thoroughly with soap and water.

For more information on this guide or on any Endura coating product please contact us at 1-800-661-9930 or by email [info@endura.ca](mailto:info@endura.ca).

Endura products are manufactured from the highest quality raw materials using the most advanced methods. Best results from this superior product are attained when these preparation and application instructions are followed carefully.

*Since we have no control over surface preparation or of application, we give no warranty of the resulting finish attained. Any liability on our part is limited to the replacement of material purchased from us or our distributors.*