Epoxy-Coat®
Installation Instructions

Standard Full / Half / 15-gallon prime coat

www.epoxy-coat.com
Mondays - Fridays
9AM - 5PM
(800) 841-5580

Saturday
12pm - 3pm
EST
(586-344-3469)
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Welcome to Your New Floor
Thank you for purchasing the Performance Epoxy-Coat® floor coating kit. We want to make sure that your installation is easy and that you are completely satisfied with the results.

Important
Please read all instructions carefully before you start your project. Also, please read all instructions on the labels for Part “A” Resin and Part “B” Activator and watch the video on the enclosed DVD. Our epoxy kits are made to be mixed easily by pouring all contents of Part A and Part B into largest outer container

If you have any questions during your application, call 800-841-5580 to speak to one of our experts. Our hours are Eastern Standard Time M-F, 9am - 6pm, Saturday 12 pm – 3pm

Key Product Information Overview; Standard Kits
• For priming concrete/wood garage/basement/industrial-commercial floors
• Thicker, self-leveling, high gloss, one coat application, over 4x thicker than dup water-based epoxies
• Fills rough concrete, leaves no brush or roller marks
• Easy application in an afternoon
• Durable; over 3x stronger than concrete, resists chemicals, won’t peel
• Easy Maintenance
A message from our President

My name is Craig Jones, President/CEO of Epoxy-Coat®, Inc. I began in the floor coating industry in 1981, and since that time with the help of many world-class chemists, have been improving our patent pending epoxy floor coating kit.

My goal is to provide to our customers, (commercial, industrial and residential) the most economical, easy to apply, durable, longest lasting do it yourself floor coating kit. I want to change the way high performance floor coating systems are installed.

I’d like to make it as easy to install a professional high performance floor coating system (usually left to professionals), as the low-quality water-based epoxy systems offered by other national brands. Epoxy-Coat is the only Do-It-Yourself floor coating kit that can be applied in 3 hours achieving a professional result.

Epoxy-Coat is also the first to offer an all-inclusive kit with a Limited Lifetime Warranty, 0 VOC, self-leveling, and 100% Solids!

My number one goal has always been honest customer satisfaction and real value.

Thank you for your business,

Craig S. Jones
Epoxy-Coat, Inc.
Safety Information

- Keep out of reach of children / Do not consume
- Cleaning solution contains Phosphoric acid. Eye and skin irritant.
- You should wear rubber gloves with safety glasses when mixing, preparing floor with acid and mixing/applying Epoxy-Coat.

First Aid Measures

Ingestion
If ingested, do not induce vomiting unless directed to by medical personnel, do not give anything by mouth to an unconscious person. Drink 2 cups of water or milk. Contact a physician immediately and seek medical attention. Material Safety Data Sheets are available online at www.epoxy-coat.com.

Eye / Skin Contact
In case of contact with eyes or skin, clean with soap and water and then flush with cold water for 15 minutes.

Epoxy-Coat Primer Full Kit 500 sq ft
Contents
- Safety Gloves
- Large Mixing Bucket
- Acid Cleaning Granules
- Epoxy Part “A” Resin
- Epoxy part “B” Activator / Hardener
- Mechanical Mixing Tool
- Measuring Stick
- 1 Brushes
- Squeegee
- 1 Rollers

Epoxy-Coat Primer Half Kit 250 sq ft
Contents
- Safety Gloves
- Large Mixing Bucket
- Acid Cleaning Granules
- Epoxy Part “A” Resin
- Epoxy part “B” Activator / Hardener
- Mechanical Mixing Tool
- Measuring Stick
- 1 Brushes
Before You Start

Please take a few minutes before you start your floor project to review these instructions. By understanding the variations in concrete and the methods used to test for problems, you will be prepared for a good installation experience. Our epoxy kits are meant to be mixed completely in one batch which means you mix all of Part “A” with all of Part “B” in the outer largest container/bucket.

Application Conditions and Pre-tests

For better coating adhesion, Epoxy-Coat recommends that before you begin the process of preparing the floor for coating, you try the tests below:

Kit Coverage

- Up to 2500 sq. ft. on smooth concrete surfaces for the Full 15 Gallon Kit
- Up to 500 sq. Ft. on smooth concrete surfaces for the Full Kit
- Up to 250 sq. Ft. on smooth concrete surfaces for the ½ Kit

True coverage is subjective and based on the desired appearance of a finished floor by the installer. Varying concrete conditions can cause varying results.
Testing for Sealers
To determine if the concrete has been previously sealed you can perform a simple test by pouring a small amount of water onto the surface in various areas. If the water beads, a sealer is present and needs to be either chemically or mechanically removed with a diamond grinder (available at a local rental or big box store). Please visit www.Epoxy-Coat.com for more information.

Testing for Moisture
Epoxy-Coat recommends using the moisture test kit called “Vapor Gauge”. Another easy test is to apply a 3’ x 3’ sheet of plastic (heavy-duty garbage bag or plastic visqueen) to an area of the floor. Tape down the edges with duct tape and allow it to sit for 24-48 hours. If water droplets appear on the inside of the plastic or if concrete appears wet (darker in color), the moisture in the concrete is high. Call Epoxy-Coat technical support at 800-841-5580 if the condition exists.

Temperature Conditions
The ideal temperature range when working with Epoxy-Coat is 40F-90F (4C-32C). Warmer temperatures will shorten working time and speed up curing process and cooler temperatures will extend working time and slow curing process. Preparation with Epoxy-Coat Clean and Prep Solution should not be attempted below 35F. High humidity will affect the curing of the coating and may cause varied color throughout the coating. Epoxy-Coat does not recommend applying where the relative humidity is above 85% maximum.

Note: It is always better to bring the temperature of the room up the day before you start coating. Once you start, you would like the temperature to be dropped 10F-20F to avoid any possible bubbling.

Concrete Inspection
Concrete varies in different areas of the Country/World. Some concrete is very hard which will require extra etching to provide an appropriate anchor bond. If you have soft and chalky concrete or areas that have spalling chipping or cracking, Epoxy-Coat recommends that you purchase Epoxy-Coat patch kit EPK 1000 where concrete patching is needed at www.epoxy-coat.com and also purchase an additional prime coat in porous/weak concrete where bubbling may be of concern. Testing of concrete hardness can be done by pressing a regular screwdriver over the surface of the concrete. If the concrete can be removed, it is considered weak concrete. Areas where concrete is chalky and weak should be diamond ground to a sounds concrete surface and primed prior to coating.

Joints, Holes and Saw Cuts
Joints and saw cuts can be filled with Epoxy-Coat patch kit EPK 1000 at www.epoxy-coat.com and should be performed after preparation but prior to coating application. Cracks under 1/8” should be patched with Epoxy-Coat special acrylic latex caulk at www.epoxy-coat.com.
Application over Previously Coated Floors
Coatings that are present on the concrete may be coated with Epoxy-Coat if they are bonding well. An appropriate bonding coating is determined with a “Coating adhesion test”.

- With a razor blade, cut an X through the coating to the concrete
- Apply a 6” piece of duct tape over the X and press firmly
- Completely remove the tape with one quick pull.
- If more than 5% of the taped area is removed, the original coating is not properly bonded and needs to be removed chemically or mechanically with a diamond grinder. (available at a local rental or big box store)

Properly bonding previously coated areas must be cleaned with a proper detergent and scrubbed and sanded with 100-120 grit sandpaper prior to application of Epoxy-Coat. Using the Epoxy-Coat Clean and Prep solution is not necessary over previously coated areas.

Note: A recommended cleaner is our Epoxy-Coat C-900 Citrus Cleaner available at www.epoxy-coat.com or 800-841-5580.

Coating over Tile Floors
Tile, linoleum or terrazzo may be coated with Epoxy-Coat. Tile areas must be cleaned with a proper detergent and scrubbed and diamond ground to achieve a 100-120 grit profile prior to application of Epoxy-Coat. Using the Epoxy-Coat clean and Prep solution is not necessary over tile.

Coating over Wood Floors
Wood floors may be coated with Epoxy-Coat. Wood areas must be cleaned with a proper detergent and scrubbed if contaminated and all waxes or un-bonding materials removed prior to coating. Sanding the wood to achieve a 100-120 grit profile prior to application of Epoxy-Coat is only necessary if the wood surface is smoother than a 120-grit profile, otherwise no sanding is required. Using the Epoxy-Coat clean and Prep solution is not necessary over wood.

Coating over Metal
Metal surfaces may be coated with Epoxy-Coat. Metal surface must be free from rust, cleaned and sanded prior to coating.

Industrial and Commercial Concrete Floors
Shot blasting and/or Diamond Grinding is preferred for industrial or commercial floors, or wherever the standard prep solution is ineffective.
Now You’re Ready; Step-by-Step Instructions

The most important part of your project is the careful preparation of your floor. The time you spend on this will pay off in a beautiful finish.

Preparation (Check off as you complete each step)

Commercial/Industrial floor should be shotblasted or diamond ground in place of etching below.

___Step 1: Sweep or power blow entire floor surface area.

___Step 2: Typically, old concrete floors have contaminants which must be removed prior to coating. Using a diluted degreaser and hot water, you should scrub those areas vigorously. Heavy contaminated or oily areas should be concentrated and repeated if necessary.

___Step 3: Add acid granules floor prep solution into 5 quarts of cold water in a plastic sprinkling can or plastic pump sprayer and mix until diluted. This will yield enough premix to cover up to 500 sq ft using the 12 oz prep solution included with the full kit.

___Step 4: Cleaning a 10’ x 10’ section at a time, (using the optional sprayer) apply the premix evenly over the surface. Do not expect foaming. Scrub the premix into the surface with a stiff bristled broom. Move to the next 10’ x 10’ area. NOTE: If the floor has a sealer, diamond grinding will be needed. Pressure washing can aid in preparation.

___Step 5: After application of floor prep, double rinse the surface with a water hose. Scrub while rinsing to insure
removal of all loosened material. NOTE: It is best to scrub in both directions.

After the surface has dried, check any glossy or oily areas by applying a few drops of water. If water does not penetrate quickly, re-etch the affected areas. Note: Muriatic acid can be used in place of clean and prep solution.

Allow the floor to dry fully before coating. A power blower can be used to assist in the evaporation of the remaining water. Once your floor is dry, rub your fingers on the concrete and check your fingers for a film. If there is no film, you are prepared for application of the coating. Remember you must remove contaminants and create a profile before coating or your coating will not adhere correctly.

**Mixing Instructions**

_____Step 6: Rinse and dry the large mixing bucket (which held all kit contents) with a clean rag prior to mixing. Install the supplied mixing tool into a high-speed drill. Apply protective plastic onto a 10’ X 10’ area where mixing is to be performed (not on the floor coating surface).

_____Step 7: Mix Part “A” of Epoxy-Coat in its original bucket for 2 minutes. If the color is not what you like "STOP", do not activate and contact Epoxy-Coat for options as activation, mixing or application will NOT change color.

_____Optional Step 7a: If more than one kit is being used, batch mix all colored Part “A” resins together for color consistency. If the color is not what you like "STOP"., do not activate and contact Epoxy-Coat for options as activation, mixing or application will NOT change color.

_____Step 8: Into the large cleaned mixing bucket, pour all Part “B” ACTIVATOR/HARDENER contents.

_____Step 9: INTO THE SAME OUTER MIXING BUCKET, pour all pre-mixed contents of Epoxy-Coat Part “A” RESIN.
Note: For smaller mixes the actual mixing ratio is 1 part by volume of Part B Activator/Hardener to 2.3 parts of Part A Resin.

Example for smaller batches:

If using a measuring cup/pail, please refer to these guidelines: 58 ounces of Part “B” Activator/Hardener (1 part by volume) 134 ounces of Part “A” Resin (2.3 parts by volume)

___Step 10: Mix thoroughly with the mixing tool for 3 minutes paying close attention to mixing all around the buckets sides and raising and lowering with the mixing tool.

Please Note: Mixing must be very thorough (3 minutes) or the coating will not cure and clean up, and removal of the uncured epoxy will be costly and very time consuming. Do not wipe the sides of the mixing bucket between mixes or after the final mix as there may be residual unmixed epoxy. The residual epoxy in the mixing bucket will not adversely affect the future epoxy mixes.

___Step 11: Immediately pour ALL mixed contents in a line on the floor (Do not leave any mixed coating in the bucket for cut in, use the material on the floor to cut in around perimeter). Starting in the farthest corner of the room, pour mixed contents (parallel to and approx. 2’ from the wall”). Using the kitbrush, cut in the perimeter walls or any other obstruction that may be hard to roll. For a full kit pour half of the mixed contents parallel to the wall and half parallel to the first pour in the center of the room. You will have two equal lines of materials approximately 3”-4” wide separated approximately 8’-12’.
Please Note: After pouring mixed coating from the bucket to the floor, you have 20-25 minutes working time @ 70 degrees F (lower at higher temps).

Example Coating thickness are:

10’ X 25.0’ = 9.7 Mils Dry Film thickness
10’ X 12.5’ = 20 Mils Dry Film thickness
5’ X 12.5’ = 40 Mils Dry Film thickness

The definition of a coating mil thickness is 1 mil = 1/1000 of an inch. Epoxy-Coat will cure faster the thicker it is.

We do not recommend coating beyond the garage door as the UV rays will amber the coating.

Application Instructions

Step 12: Using the kit squeegee, (perpendicular to the poured line of epoxy) draw the epoxy from the back wall with the squeegee until there is no longer wet epoxy to draw back. Continue to squeegee pulling this product down the line until complete.

Step 13: With the kit roller, perpendicular to squeegee application, roll the epoxy until even and consistent. If you don’t have spike shoes, make sure you only squeegee those areas to give you enough room to backroll without walking into the wet epoxy.

Step 14: (If you have spike shoes) After the second section is squeegeed and rolled, go back to the first section and re-back roll it completely (approx. 5 minutes after first back roll).
**Recommendations and Helpful Tips**

Spike shoes will make coating the floor easier.

When back-rolling a second time for color or clear coats, only back-roll one time approximately 10 minutes after first application to avoid inducing bubbles into the coating.

When applying topcoat, you should wait 10-24 hours to apply the second coat. If you wait more than 24 hours, you must rough the surface with 120-grit sandpaper prior to coating and you must wipe the floor with denatured alcohol prior to coating.

Epoxy-Coat should be applied in multiple coats if necessary, in contaminated areas, rough areas or where a smoother looking appearance is desired.

Possible coating problems during application
If bubbles appear during coating, using a power blower, blow the epoxy floor surface while still wet. You may also consider trying to re-back roll the floor again a 3rd time, prior to broadcasting any flakes/non-skid. If bubbles continue to appear, keep using leaf blower to relieve surface tension.

If fish eyes appear in the coating (as a result of contamination) continue to back roll the floor until it is very tacky prior to flaking/nonskid the floor.

If color variations appear between sections, try to re-back roll the entire floor completely prior to broadcasting any flakes/non-skid.

**Dry Time**
Dry time for foot traffic in 18 hours and heavy traffic in 24 hours at room temperature (70 degrees F) regardless of thickness. Longer at cooler temperatures. Temperature and humidity can affect dry time. AS WITH MANY HIGH-PERFORMANCE FLOOR COATINGS FULL CHEMICAL RESISTAND CURE IS 3 DAYS.

No water should be on the newly coated floor for 7 days.

**Disposal**
Remaining unmixed Epoxy-Coat product can be mixed into the mixing bucket for 3 minutes and harden. Dispose of in accordance with local, state and federal laws.

**Maintenance**
Recommended floor cleaning solution is Epoxy-Coat C-900 cleaning solution (can be purchased on-line @ www.epoxy-coat.com) or with a mild degreaser or citrus cleaner. The recommended cleaning is every 6 months. Use a soft deck brush/broom, rinse and squeegee for best results.

*Pressure washing can be used but only on lowest setting with 30-degree tip or higher (less than 1000 psi)

*The use of a mechanical buffer to aid in cleaning can be used but only with soft bushes
Kit Coverage
Epoxy-Coat is a near 100% solids epoxy and will cover approximately 1600 sq. ft. per mil. If a customer applies the coating 10 mils DFT the coating will theoretically cover 160 sq. ft per gallon on a smooth (glass like) surface. As a result of surface conditions varying in smoothness, concrete porosity and coating thickness or varied thicknesses applied by customer (technique) Epoxy-Coat cannot control kit coverage. The kit coverage is estimated based on normal conditions and should not be considered by the customer to be guaranteed. If you feel you are at a close margin for coating coverage, Epoxy-Coat recommends that customer buy additional coating prior to starting the job.

Concrete Problems
It is not possible to apply 1 coat of Epoxy-Coat over a concrete surface without the possibility of bubbling, fisheye’s or color variations.

Concrete surfaces and all environmental conditions associated with coating vary from job to job; there is no guarantee that a one-coat application will be perfect every time. Concrete porosity, humidity, moisture in the concrete, surface and air temperature, accelerated temperature changes during or after application, sub surface and surface contaminants (like silicone automotive detail cleaners), etc. can each cause their own independent issues. As a result of these variables, Epoxy-Coat continues to adjust its formula to achieve the best results with high percentage environmental parameters. We are always testing and reformulating to achieve the goal of a perfect one-coat application for concrete or wood in all conditions. It is our recommendation that you follow all the application rules to achieve the best result, but we cannot guarantee your final coating appearance. We do recommend in extreme cases that you apply a second coat or a clear coat to reduce these conditions from adversely affecting your final coating appearance.

Note: One of the benefits of applying the Performance Premium kit is it does have more flake chips and has a clear coat. When this is applied you have less chance of noticing or having conditions affecting your final cured coating appearance.

Bubbling or fish eyes will not adversely affect the bonding or performance characteristics of Epoxy-Coat.

Mixing and Curing
If mixing is not performed as specified, the customer may have slowed curing, non-curing or varied cured performance characteristics.

Once a customer mixes and applies the first batch mix please review to determine color, coverage and appearance. If the customer does not like the results STOP COATING and call Tech Support at 800-841-5580 to determine appropriate options. Do not assume that additional batches will give a different color, hiding or different appearance/result than experienced in the first batch. Epoxy-Coat does not warranty the replacement product in its kit for more than 1 batch mix. If it is found that there is a problem with the Epoxy-Coat product, and a customer does apply more than one batch mix, it is the customer’s
Frequently Asked Questions

Our expert Technical Hotline staff has collected the most frequent questions and answers here to help you plan and install your new floor, 586-468-3400 M-F 9-5.

If you have any questions after hours, call our Technical Hotline at 586 344 hours are Sat. 12pm – 3pm.

Can my Deck-Coat be used for other surfaces other than concrete?
Yes, you can coat concrete, wood, tile or metal inside or outside.

With new or uncoated concrete, do I have to prepare the surface?
Yes. You must remove contaminants/latent and create a profile for the coating to properly bond. Shotblasting and/or Diamond Grinding is preferred for industrial, commercial and residential or institutional floors where the prep solution is ineffective. Visit www.epoxy-coat.com for further information on surface preparation procedures.

Should I power wash my floor?
It does help to power wash the floor to remove surface contaminants or loose coatings or debris. It does not eliminate the normal preparation steps, which we specify. Power washing removes contaminants but does not create the necessary profile for coatings proper adhesion.

How can I remove dried Epoxy-Coat from driveway concrete?
We recommend using a safe paint stripper (home use). You can also use a power washer or hand held diamond grinder to remove this stripper.

What do I do if the prep solution does not electively profile my floor?
You can purchase muriatic acid and re-etch the floor or diamond grind the surface.

Can I use Epoxy-Coat indoors and on basement floors?
Yes, Epoxy-Coat is safe and approved for indoor use. There are no VOC fumes.

Are there any other special requirements for indoor applications?
If your indoor floor, such as a basement concrete is in poor condition and needs to be prepped with a muriatic acid treatment, you will need a floor drain and ventilation. Muriatic acid does need to be rinsed down the drain and does produce some odors that must be ventilated.

Does the concrete need to be cleaned before using the clean & prep solution?
Yes, if there is contamination it must be removed.

How long does the standard primer take to apply?
Approximately 2 hours total for a normal garage.

Can I apply Epoxy-Coat primer over an existing coating?
Epoxy-Coat can be coated over existing paints/coatings by simply making sure the existing

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PerformancE Epoxy-coat coatings are cleaned, sanded (80-100 grit) and bonding. All areas that are not bonding must be diamond ground.

If I have new concrete will I need to prepare the floor as Epoxy-Coat instructions say? Yes. New concrete must still have a rough profile and clean surface prior to coating.

How long do I need to wait to coat new concrete with Epoxy-Coat primer? 30 days.

What temperatures can I apply Epoxy-Coat primer? 40-90 degrees F.

If you have bubbling problems during installation what should you do? Take a leaf blower and blow the top of the surface to remove the surface tension and removing the bubbles.

If you have contaminants on the floor and therefore have fisheye problems what should you do? Re-roll the floor until the fisheyes go away.

Does crack/mortar joint patching crack or peel? All concrete moves. Mortar joints/saw cuts are engineered to allow for the movement of concrete. Cracks are the cause of more movement than the mortar joints/saw cuts will allow for. The coating will crack when the concrete moves but shouldn't peel away from the sand concrete around the crack.

Does the concrete need to be cleaned before using the clean & prep solution? Yes, contamination must be removed.

Should I add thinner to the coating when mixing? Epoxy-Coat does not recommend adding thinner to the coating.

When taping when should I pull the tape up? For ease or removal, remove tape between 2-3 hours after application at 70F.

If I have fiberglass added to my concrete will Epoxy-Coat cover the little hairs that are present after floor preparation? No. Using a gas torch burn the hairs from the floor prior to coating. Coat the floor with first coat of Epoxy-Coat, wait 24 hours and sand vigorously.

How would I coat Epoxy-Coat over wood surfaces? Simply remove sealers/waxes/contaminants/nails and use our flexible acrylic caulk to patch the seams and holes prior to coating. If the wood is clean and has a texture to it, the epoxy will adhere to it.

Should I patch cracks/holes/mortar joints prior to coating? How would I do this? Epoxy-Coat recommends patching all cracks prior to coating. Since mortar joints/saw cuts are engineered for movement Epoxy-Coat does not recommend patching them prior to coating. Epoxy-Coat patch kits and caulk can be purchased online at www.epoxy-coat.com.

www.epoxy-coat.com
What should I do if my part “A” Resin has been exposed to cold temperatures or has exceeded its shelf life and has crystallization?

Part “A” Resin can in some conditions crystalize. This will not affect the performance of the coating. To remove crystallization simply boil water between 140F-170F and put the containing into the water for 30 minutes. Mix the product in the container before use. If you find there is still crystallization, repeat steps.