SD EPOXY COATING KIT

Instructions V3.27.23

Legacy Industrial - www.legacyindustrial.co - 888-652-0333

Table of Contents

SD Epoxy ***Coating Kit, Instructions***

PLEASE READ THIS SECTION THOROUGHLY

Coverage	Your kit coverage, as indicated when ordered, will cover a range of square feet. As long as your project area is less than kit-size you will have enough product. ***Example****: 300 sqft kit will cover up to 300 sqft as long as area is not too rough or porous. Consider any vertical edges in your total square footage calculation as well.*
Use	This kit is designed for horizontal concrete floor surfaces found in covered buildings (garages, hobby shops, warehouses, auto-service centers, airplane hangars, etc.…) **NOT INTENDED FOR OUTSIDE USE**
Temperature & Humidity	This kit should be installed when air-temperatures are between 50 deg. f and 90 deg f, Humidity 50-90%, do not coat during rain event (Slab temps not to exceed 5 deg.f. below min. air temps, respectively).
Storage & Application Considerations	Store your product in a cool and dry environment (65-75 deg. f) prior to install, do not coat in direct sunlight or a hot surface. It is the user's responsibility to do a complete inventory before starting the process and checking for moisture (place a 4'X4' plastic sheet on the substrate and tape down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating).
Coats	You will receive enough product to apply (2) separate coats. (1) primer coat, (1) color-coat of **SD Epoxy** (with or without flakes), Clear-coats are optional.
Additional Items	Source these items locally: preparation medium, skin eye and lung protection, (1) qt. xylene or MEK solvent for solvent product clean-up, broom handle, tarp, cloth rags, cordless drill & mix-buckets. If not purchased with premium tools-kit a visit to local paint store will be required for roller frame, rollers, mixer, brushes, trays, etc…
Support	Email: info@legacyindustrial.net, PH 888-652-0333 (leave a message if prompted to do so, we will call you back), include order number.

Safety Considerations

LEAD PAINT WARNING: If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure, and clean up carefully with a HEPA vacuum and wet mop. For more information, contact the National Lead Information Hotline at 1- 800-424-LEAD or log on to www.epa.gov/lead.

SILICA DUST WARNING: Sanding, grinding, or cutting concrete can release dust containing high levels of crystalline silica. Prolonged or repeated exposure can lead to a disabling and often fatal lung disease called silicosis. Some studies also indicate a link between crystalline silica exposure and lung cancer. Wear a NIOSH-approved respirator to control silica dust exposure, and clean up carefully with a HEPA vacuum and/or water.

SOLVENT WARNING: Our supplied pigmented primer & optional HellFire® ClearCoating is solvent based, it is recommended that the user use respiratory protection during the installation and ventilate the workspace during install and curing. Wear a NIOSH-approved, dual cartridge, respirator to protect against inhalation hazards from solvent vapors. For more information,

consult our Safety Data Sheets. Not recommended for enclosed, non-ventilated spaces. Do not spray or atomize these products. (California Orders and Special-Request Orders will receive our clear, LOW VOC PRIMER)

SKIN & EYE CONTACT WARNING: AVOID CONTACT WITH SKIN AND EYES. WEAR GLOVES AND EYE PROTECTION. For skin contact, wash affected area with soap and water and rinse/shower well. For eye contact, flush with cold water for 15 minutes. If swallowed, do not induce vomiting. Rinse mouth and contact a physician immediately. KEEP OUT OF REACH OF CHILDREN.

Condition	**Potential Issue**	**Solution**
Moisture issue or suspected issue	Water vapor trapped beneath a coating can possibly delaminate coatings or create bubbles	Test prior to coating. Possible solutions: Moisture Vapor Barrier coating (supplied by others) or do not apply coating
Weak sandy or laitance riddled concrete surface	Weak sandy or laitance riddled surfaces may eventually cause delamination	Grind concrete through the weak area, test for strength or do not apply coating
Cracks	Cracks may telegraph through the coating	Fill cracks prior to coating with Legacy Industrial's XtremeSet100™ Crack/Joint Filler
Contraction/Control Joints	Open joints can trap dirt/debris	Fill joints prior to coating with Legacy Industrial's XtremeSet100™ Crack/Joint Filler or fill post-coating with flexible SL filler or leave as-is
Perimeter Joints	Open joints may trap dirt/debris	Fill joints prior to coating with Dap 3.0 Concrete Repair (only perimeter joints)
Door sills/thresholds found beyond garage-door	Coated sills may be exposed to moisture from exterior sources, possibly causing delamination from water-vapor	End coatings at garage door or coat with a breathable product
Holes or Voids	Holes or Voids may trap dirt/debris.	Fill small holes with Legacy Industrial's XtremeSet100™, fill holes larger than a One Dollar Bill or deeper than 2" with Legacy Industrial's FiveTon® Epoxy Patch

Surface Preparation

CONCRETE FLOOR PREP (the most important step)

All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. Diamond Grind, shot-blast or properly acid etch the surface to achieve a CSP # 2 level of preparation. Wear a NIOSH-approved respirator to control silica dust exposure, and clean up carefully with a HEPA vacuum and/or water.

TECH-TIP: While acid-etching is a form of preparation, we recommend it only be used on newer, unsealed and unsullied floors. It is best to etch at least 2x to be sure the floor is porous enough for install. Check out our own brand of etch (HD357 ETCH) as it is more ecologically friendly and still makes an effective etch compared to muriatic, hydrochloric and phosphoric acids.

TECH-TIP: If renting diamond-grinding equipment request a diamond grit between 15 & 30. EDCO® BRAND & Husqvarna® BRAND machines are very effective and commonly found at rental outfits. "Planetary" style machines are the most efficient.

Primer

Mix Standard Primer

Prior to mixing make sure the mixing pail (5 gal pail) is clean and free of any debris. Pour and Mix (1) Can of Part A and (1) Can Part B in the clean mixing pail. Mix well using a proper mix wand attached to a drill, making sure to scrape the sides and bottom of the mixing pail thoroughly. Any unmixed liquids (check the sides of pail) will not cure properly. Mix for approx. 3 minutes. Do not use partial kits. ***Pour mixed primer into a paint tray.***

Apply Primer

Maintain air-temperatures within 45-90 degrees F with relative humidity between 50-90% during the application and curing process. Use a paint brush or whizz roller to cut in around the edges- areas your roller will not reach. Roll coating onto floor with a 3/8" nap roller. The mixed material will cover approximately 300 sq ft per gallon dependent on the porosity of the floor.

This material has a pot life of approx. 40-45 minutes. This can be shortened when temps rise above 80 deg f. When the end of the pot life has been reached, you will find that the material becomes hard to apply and will actually tend to roll back up onto the roller. Do not try to continue application when the coating has reached this step. Marry the next batch up to the last until the priming step is complete.

Allow primer to dry.

When applied at 70 degrees F this material will be ready for recoat in approximately 6-8 hours. It is best to test the coating before recoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating or top coating can commence. -DO NOT WAIT LONGER THAN 24 HOURS TO APPLY NEXT COAT WITHOUT FURTHER PREPARATION STEPS-

Color Coat – SD II Epoxy

Color Coat – SD Epoxy

Mix SD Epoxy: Prior to mixing make sure the mixing pail (4-5 gal pail) is clean and free of any debris. Pour and Mix (1) Can of Part A and (1) Can Part B in the clean mixing pail. Mix well using a proper mix wand attached to a drill, making sure to scrape the sides and bottom of the mixing pail thoroughly. Any unmixed liquids (check the sides of pail) will not cure properly. Mix for approx. 3 minutes. Do not use partial kits. This product has a working life*, when applied correctly, of approx. 30-35 minutes at 75 deg f.

Pour a ribbon* of mixed epoxy onto the prepared surface. Use a flat-squeegee to pull the material where needed. Once done with squeegee, roll coating out with a 3/8" nap roller. Use a small brush to cut in around the edges – areas that your roller will not reach. A (1) gallon mixed unit will cover up-to 150 sqft. As you roll out the mixed material, you can begin to broadcast chips into the wet epoxy. To do this, spread the chips by tossing them slightly up into the air and allowing them to settle into wet epoxy as you progress. Do not roll over the top of the paint chips once they are on the floor. Estimate the chips to use to make sure they are evenly spaced to prevent running out of chips before the end of the coated floor. The objective is to have a nice "sprinkling" of chips, not full coverage.

TECH TIP: You can walk into the wet coating using a pair of "spike shoes". These allow you to apply your chips/flakes post rolling, making the process a bit easier. BE CAREFUL! Floor will be slippery even with the spike shoes in place!!

*TECH TIP: NEVER WORK FROM THE MIXING BUCKET!! ALWAYS APPLY DIRECTLY TO THE FLOOR IN RIBBONS. THIS PRODUCT WILL CURE PREMATURELY & RAPIDLY IN THE BUCKET IF NOT DUMPED OUT.

Allow coating to dry.

When applied at 70 degrees F this material will be ready for recoat in approximately 10-12 hours. It is best to test the coating before recoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating or top coating can commence. -DO NOT WAIT LONGER THAN 24 HOURS TO APPLY NEXT COAT WITHOUT FURTHER PREPARATION STEPS-

Optional Clear-Coat

Recoat your SD-Epoxy with an optional clear-coat if desired. If more than 24 hours has elapsed since application of SD-Epoxy, screen-sand your epoxy with a 100 grit sanding screen, wipe clean with denatured alcohol or similar. Apply clear-coat following directions found on label.

Recommended: We recommend skid resistance be added to your epoxy floor. We offer HDGrip- Soft Skid anti-skid material in (3) levels of grit. Extra-Fine, Fine and Coarse. IT IS UP TO THE USER TO DETERMINE THE PROPER AMOUNT AND LEVEL OF ANTI-SKID REQUIRED. We supply FINE as standard when selected. However, we will provide any level you request at no extra charge. If you are not sure what level you need, it is recommended that the user perform a test patch of product prior to installing the entire kit. These instructions are to serve as a basic guide. Field conditions are not consistent and therefore application and preparation methods may have to be modified in order to achieve a successful outcome. Installers assume this risk.

Contact: sales@legacyindustrial.co or dial: 1-888-652-0333