

# ELECTRIC EPOXY

## 100% Solids Cyclo-Aliphatic Epoxy

### Product Description

Long Pot Life Electric Epoxy is a long pot life formula, 100% solids cyclo-aliphatic epoxy. A slower setting formula allows for more work and additional open time on the floor.

### Benefits & Features

- 45+ minute pot life
- Slower set times and extended open times allow for higher mil thickness
- Excellent clarity, leveling and reflective properties

### Recommended Applications

Long Pot Life Electric Epoxy can be used as a base coat or metallic in the Liquid Metals system. Also can be tinted with Epoxy Tint for a solid color application. Great for auto service centers, warehouses, laboratories, aircraft hangars, cafeterias, garages, and flake, quartz & metallic flooring applications.

### Technical Information

Solids % Weight	100%
Pot Life	N/A
Dry Time - Tack Free	11 - 13 hours
Dry Time - Foot Traffic	20 - 24 hours
Dry Time - Heavy Traffic	2 - 7 days
Re-Coat Time Window	12 - 24 hours
Application Temperature	50°F - 80°F
VOC Content	<50 grams per liter
Appearance	Clear and High Gloss

Information is based on lab temperatures of 70° - 72° F at 50% RH. Using this product outside of these conditions may affect the accuracy of the information above. Always test prior to use.

### Specifications/Compliances

Dried coating is USDA accepted. Meets OTC, CARB, LADCO & SCAQMD VOC restrictions.

### Shelf Life

Up to one year from manufacture date in its original, unopened container stored at room temperature.

### Packaging

Available in 0.75 gallon, 1.5 gallon, 3 gallon, 4.5 gallon and 15 gallon kits.

### Coverage Rate

First Coat - Direct to Concrete	100 - 150 square feet per gallon*
Second Coat - Over Existing Coating	75 - 125 square feet per gallon*
Metallic Coat - Over Existing Coating	40 - 100 square feet per gallon*

\*Coverage rates may vary depending upon surface porosity, texture, application method and prior coating application. Excessive build up should be avoided.

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## **Instructions for Use**

**Moisture Testing:** Concrete floors, especially those not poured over a proper vapor barrier (plastic), are subject to possible moisture vapor transmission which may result in bubbling and/or failure of high performance coatings. Basic moisture testing can be performed by placing a 4' x 4' sheet of plastic on the concrete surface and securely taping it down on all edges. If after 24 hours the concrete is still dry below the plastic, the surface should be ready to coat. If moisture is present, the coating applicator should perform calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions are present before applying any coatings.

**Surface Preparation:** The concrete surface must be deemed mechanically and structurally sound, thoroughly clean of debris and completely dry. Concrete must be fully cured a minimum of 28 days. It is recommended to prepare the concrete surface by mechanical means such as shot blasting or diamond grinding with 30 grit or coarser diamonds to achieve a CSP-2 to CSP-3 profile. Vacuum concrete surface several times until dust is thoroughly removed. If applying over an existing, fully bonded coating that is outside its recommended recoat window, the surface should be sanded thoroughly with a 60-120 grit sanding screen until the surface is completely dulled with scratches. Vacuum dust thoroughly, rinse with clean water and remove excess water with a wet/dry vacuum or floor scrubber. Allow surface to dry completely prior to application of coating. Where applicable and with adequate ventilation, wipe the surface with acetone and a microfiber dust mop. CAUTION: Acetone is extremely flammable! If using acetone follow all safety precautions, make sure no pilot lights, open flames, sources of static electricity, sparks or extreme heat sources are present. Use recommended personal protection for acetone.

Substrate, air and material temperatures must be no less than 50°F and not exceed 80°F. If applied outside these limits the coating may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing. Please note that higher substrate, air and material temperatures as well as excessive humidity may speed the cure rate of this product. Cooler temperatures and lower humidity may slow the cure rate of this product.

**Tinting:** Tint with Epoxy Tint. One pint container per 3 gallon kit is suggested for a solid, opaque finish. For metallic epoxy applications, one container of Liquid Metals per 3 gallon kit is suggested. Always add color to Part A and drill mix for 2-3 minutes prior to blending A and B. Color may settle during long term storage and be difficult to redistribute. Always test for color acceptance prior to full application. Multiple coats may be necessary for total opacity.

**Product Mixing:** If mixing less than a full kit, mix Part A and Part B separately with a stir stick, low speed mixer or vigorously shake containers prior to measuring out the smaller kit to ensure uniform distribution of all ingredients. In a clean mixing container, blend 2 parts A and 1 part B using a drill mixer for 2-3 minutes. If mixing a full kit (except a 15 gallon kit), the Part A container can be used as the mixing container. Avoid creating a vortex in the material which could introduce air and/or moisture content to the mixture. Do not mix more than can be applied within the usable pot life time frame. DO NOT THIN!

**Product Application:** It is suggested to apply the mixed material by pouring it out onto the surface and spread with a flat flexible squeegee or a notched squeegee. Use a 1/8" (8-12 mil) notched squeegee when applying direct to concrete. A 3/16" (15-20 mil) to 1/4" (25-30 mil) notched squeegee may be used on additional coats over a completely sealed off surface. Back roll clear and solid color epoxy using a 3/8" nap shed less roller or 3/8" foam roller. 18" rollers are recommended for any surface to speed up application time and reduce roller marks. Use a brush or small roller for corners and areas hard maneuver longer squeegees/rollers. While applying keep a wet edge to prevent roller marks. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. It is always suggested to minimize the amount of time mixed material is held in a larger volume, especially in higher temperatures. If the material becomes thick while applying and sticking to the application tools, stop applying and discard the mixed material. At this point it has reached the end of the usable pot life. While applying keep a wet edge to prevent streaking. Do not allow to puddle! Use a brush to remove excess coating in joints.

**Recoating:** If possible, recoat within the suggested recoat window located on page 1. Apply additional coats in the same manner as the first coat. Note that higher substrate, air and material temperatures as well as excessive humidity may greatly reduce the acceptable recoat window of this product. When working higher temperatures, always recoat as early in the recoat window as possible to avoid failure between coats. If recoating outside the suggested recoat window or beyond 24 hours, sand using a 60-120 grit sanding screen to ensure adequate adhesion between coats. Vacuum dust thoroughly, rinse with clean water and remove excess water with a wet/dry vacuum or floor scrubber. Allow surface to dry completely prior to application of coating. Where applicable and with adequate ventilation, wipe the surface with acetone and a microfiber dust mop. CAUTION: Acetone is extremely flammable! If using acetone follow all safety precautions, make sure pilot lights, open flames, sources of static electricity, sparks or extreme heat sources are present.

**Please Note:** Applying material outside the suggested parameters may result in product failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. DO NOT USE ON BRICK.

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## **Product Removal**

Dried, cured coating may be removed with a commercial epoxy stripper or by using a diamond grinding method, sandblasting method or similar mechanical action.

## **Clean up**

Use MEK. Dispose of containers in accordance with local, state and federal regulations.

## **Precautions & Limitations**

- This product will freeze during storage. Store at temperatures above 40°F.
- All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- If using indoor, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- It is not recommended to apply product over carpet, tile or other types of floor adhesives
- This product performs best when applied as one or two medium-light coats, not one heavy coat.
- Please be aware that this product when cured may be slippery when wet. An anti-slip additive, such as Deco Grip, can be added to reduce slip hazards.
- All new concrete must be cured for at least 28 days prior to application.
- It is not recommended to thin product. Improper thinning may cause coating to delaminate in a short time frame and other performance issues.
- This product may darken the surface of many new and existing concrete slabs. Test prior to use.
- Physical properties listed on the technical data sheet are typical values not specifications.
- This product, specifically Part B, is corrosive. Wear proper safety equipment while handling material.
- This product is not UV stable and should not be used outdoors or in areas exposed to excessive sunlight.

## **Special Notes**

Please consult Safety Data Sheet (SDS) and read warranty information prior to use. This information can be requested by contacting customer service at 330-682-5678.

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