

# Electric Epoxy

## 2K Cyclo-Aliphatic 100% Solids Clear Epoxy

### PRODUCT DESCRIPTION

**Electric Epoxy** is a 100% solids, two component, cyclo-aliphatic amine epoxy system with excellent durability including abrasion resistance, chemical resistance and hot tire resistance. **Electric Epoxy** is a user friendly high performance concrete flooring system.

### BENEFITS/FEATURES

- ◆ Excellent long term wear capabilities
- ◆ Excellent chemical resistance
- ◆ Excellent resistance to stain

### RECOMMENDED APPLICATIONS

**Electric Epoxy** is designed for a variety of seamless high build concrete flooring applications. It is an excellent coating for auto service centers, warehouses, computer rooms, laboratories, aircraft hangars, cafeterias, and other areas where high performance, abrasion resistance and chemical resistance are required. Also an excellent coating choice for interior decorative concrete.

### TECHNICAL INFORMATION

Abrasion Resistance.....28.1 mg loss <small>(Tabler Index, ASTM 4060-81, CS-17 Abrasion Wheel, 1000 gram load)</small>	Mix Ratio (a/b volume).....2 to 1 <small>** 19.33# part A (2.0 gallon approximate) to 8.66# part B (1 gallons approximate)</small>
Gloss 60 <sup>°</sup> .....90-95	Coverage.....90 - 100 square feet per gallon @ 16 - 18 mils
Flexibility (1/8" Mandrel).....Pass	Viscosity.....400-600 cps
Hardness - Shore D.....82	Pot Life.....20 - 30 minutes
Compressive Strength @ Yield (psi).....11,200	Dry Time-Set to Touch (50% R.H. @ 72 <sup>°</sup> F).....6 - 8 hours
Tensile Strength (ASTM D638).....6200	Dry Time-Recoat (50% R.H. @ 72 <sup>°</sup> F).....10 - 16 hours
Elongation.....7%	Dry Time-Light Traffic (50% R.H. @ 72 <sup>°</sup> F).....14 - 18 hours
Solids % Weight (Federal Spec. TTP-141B).....100%	Dry Time-Full Cure (heavy traffic) (50% R.H. @ 72 <sup>°</sup> F).....2 - 7 days
Density lbs/Ga. (Federal Spec. TTP-141B).....9.32	Application temperature.....55-90 degrees F
VOC .....< 5 grams per liter	

### CHEMICAL RESISTANCE

Butanol.....C	10% Sodium Hydroxide.....E
Xylene.....C	50% Sodium Hydroxide.....D
1,1,1 trichloroethane.....B	10% Sulfuric Acid.....C
Methanol.....A	70% Sulfuric Acid.....A
Gasoline.....C	5% Acetic Acid.....B
Skydrol B-4.....B	10% HCl (aq).....C
Ethylene Alcohol.....C	
MEK.....A	

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion.

\*\* A chemical exposure test should always be performed prior to application resistance to ensure satisfactory results are obtainable.

### PRODUCT STORAGE

Store product in an area so as to bring the material to room temperature within the recommended application temperature range before applying. Long term storage should be between 60 and 90 degrees F.

### SHELF LIFE

**Electric Epoxy** has a shelf life up to one year (12 months) in it's original, sealed, unopened container.

### PACKAGING

**Electric Epoxy** is packaged in 3 gallon and 15 gallon kits.



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EPOXIES, URETHANES, ETC.

Electric Epoxy

## INSTRUCTIONS FOR USE

**SURFACE PREPARATION:** A fine to medium shot blasting or the use of a diamond grinding machine to obtain a surface profile of a CSP - 2 to a CSP - 4 is suggested for ultimate adhesion. A test should be made to determine that the concrete is dry; this can be done by placing a 4 x 4 plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate should be ready to coat. More advanced moisture testing kits should be used on floors with suspected moisture problems. **Electric Epoxy** is designed to be applied only to primed surfaces within the recommended recoat window of the primer or previously sealed surfaces that have sufficient adhesion to the substrate. Apply coating to a clean surface that is completely dry and free of oil, dirt, grime, wax, detergent or any incompatible paint or coating. If applying to an existing fully cured and fully adhered coating, the surface must be cleaned and sanded with 60 grit sanding screen. If multiple coats of **Electric Epoxy** are required apply the second coat as close as possible to the suggested recoat time (see technical information section on this data sheet). Do not exceed 24 hours to recoat or a light sanding may be needed for adequate adhesion between coats.

**PRIMING:** Prime the surface with Electric Epoxy. (black is recommended for optimum color effects)

**\*\*For a faster curing prime coat, use Electric Epoxy accelerator pack.\*\***

**PRODUCT MIXING:** Pour the desired amount of epoxy 2 Parts A and the appropriate amount of epoxy 1 Part B into a large mixing pail. Hand mix until the material is thoroughly mixed and homogenous. Avoid whipping air into the coating. Improper mixing may result in product failure.

**PRODUCT APPLICATION:** Apply the mixed material with a brush, roller, trowel, notched squeegee or gauge rake and then backroll evenly to maintain the desired thickness within the usable pot life time frame, as well as the recommended temperature and relative humidity guidelines listed in the Technical Information section. If concrete conditions or aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating. 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. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Do not allow to Puddle! If recoating after 24 hours a light sanding using a fine sanding screen may be needed to ensure adequate inner coat adhesion.

**PLEASE NOTE:** Applying Deco-Crete Epoxy outside of the suggested parameters may result in job 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. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc.

## CLEAN-UP

Use Xylene. Dispose of containers in accordance with local and federal regulations.

## PRODUCT REMOVAL

Dried, cured epoxy may be removed by chemical means including sanding, shot blasting, etc.

## PRECAUTIONS AND LIMITATIONS

- ▶ All new concrete must be cured for at least 28 days prior to application.
- ▶ Coverage rates depend upon many conditions including application method, surface porosity, applicator, ect.
- ▶ Be aware that this product may be slippery when wet. Anti Slip additives may be needed to reduce surface slip hazards.
- ▶ **Electric Epoxy** may darken the surface of many new and existing concrete substrates. Test prior to use.
- ▶ Physical properties listed on this technical data sheet are typical values not specifications.

•• If applying over an existing coating, proper adhesion and compatibility tests are essential. In this application the substrate preparation, application, performance and all other liabilities are strictly the end users responsibility. Deco-Crete Supply, Inc. offers no guaranty, warranty or other claims to the success or results of the job in this circumstance.

## SPECIAL NOTES

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



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