

100 EPOXY

2K Cyclo-Aliphatic 100% Solids Clear Epoxy

Product Description

100 Epoxy is a 100%, two component, cyclo-aliphatic amine epoxy system with excellent durability including abrasion resistance, chemical resistance and hot tire resistance. 100 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

100 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	Mix Ratio (a/b volume)	2 to 1
Gloss 60	90-95	Coverage	90-100 sq. ft./gal @ 16-18 mils
Flexibility (1/8" Mandrel)	Pass	Viscosity	400-600 cps
Hardness - Shore D	82	Pot Life	20-30 minutes
Compressive Strength	11,200	Dry Time-Set to Touch (50% R.H. @72°F)	6-8 Hours
Tensile Strength	6200	Dry Time-Recoat (50% R.H. @72°F)	10-16 Hours
Elongation	7%	Dry Time-Light Traffic (50% R.H. @72°F)	14-18 Hours
Solids % Weight	100%	Dry Time-Full Cure (heavy traffic)	2-7 days
Density lbs/Ga.	9.32	Application Temperature	55-90 degrees F
VOC	<5 grams per liter		

Specifications/Compliances

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

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.

Shelf Life

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

Packaging

100 Epoxy is packaged in 3 gallon and 15 gallon kits.

ORRVILLE

133 North Kohler Road
Orrville, Ohio 44667
(330) 682-5678

CLEVELAND

7941 Granger Road
Cleveland, Ohio 44125
(216) 573-0770

COLUMBUS

690 Harrison Drive
Columbus, Ohio 43204
(614) 253-3326

POLY ARMOUR

www.eco-cretesupply.com

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 4x4 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. 100 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 100 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 100 Epoxy.

****For a faster curing prime coat, 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 100 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 & 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, etc.
- Be aware that this product may be slippery when wet. Anti Slip additives may be needed to reduce surface slip hazards.
- 100 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 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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