



METALLIC EPOXY

3 COMPONENT, 2 TO 1 MIX RATIO & METALLIC PIGMENT

Product Data

Volumetric Ratio 2 to 1
Solids 100% (+ or - 1%)
Coverage 50 SF/gal. at 24 mil
75 SF/gal. at 20 mil
Application Temperature 55-90°F
Thinning Not Required
Pot life 15 min.
Working Time on Floor . 45 - 60 min.
Cure Time 24 hours (walking)
24 -28 hours (light traffic)
Full Cure 5 to 7 days
Critical Re-Coat Time 12 -20hrs.
Shelf life 12 months.
USDA Food & Beverage Meets Req.
Color of epoxy.....Clear

Metallic Pigments Color

- Apple green
- Bronze
- Chestnut
- Coffee
- Deep Blue
- Evergreen
- Gold
- Grape
- Gunmetal
- Oceanblue
- Pearl
- Silver
- Titanium
- Wine Red

Packaging

3 Gallon Kits:

Part A 2 gal.
Part B..... 1 gal.
Metallic Powder 32 oz by volume

PRODUCT DESCRIPTION

E2U Metallic Epoxy is a two component, high performance modified cycloaliphatic epoxy concrete floor coating system. Its epoxy chemistry provides excellent bonding characteristics. Typically applied at a 24 mil thick single coat (50 - 60 SF/gal). This dynamic blend does not require activator to be sprayed on the surface to obtain a unique and highly decorative look. It has 45 - 60 minutes working time and it has excellent flowability and self-leveling characteristics.

APPLICATIONS

The uniqueness and universality of E2U Epoxy's chemistry facilitates the applications where USDA Food & Beverage and other regulatory requirements must be obtained. Areas of use include: garage floors, Showrooms, Hotel Lobbies & Entryways, Exhibition halls, Restaurants, Retail/Commercial Venues.

ADVANTAGES

- Essentially odorless
- create dynamic, exotic look
- Longer working time
- ZERO VOC
- High gloss, & color stability
- Low Viscosity
- Chemically resistant
- No amine blush
- Modified to be highly UV resistant

PHYSICAL PROPERTIES

PROPERTY	VALUE	REFERENCE
Compressive Strength	7,800 psi	ASTM C 695
Flexural Strength	3,700 psi	ASTM D 790
Tensile Strength	3,900 psi	ASTM D 638
Bond to Concrete	350 psi	ASTM D 4541 Concrete fails at this point
Taber Abrasion	75-80 Mgs	ASTM D 4060
Flammability	Self-extinguishing	
Hardness, Shore D	84	ASTM D 2240
Flash Point	>200°F	



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CONCRETE PREPARATION

Before coating is applied, concrete must be:

- Dry – No wet areas
- Clean – Contaminants removed
- Profiled – Surface etched
- Sound – All cracks and spalled areas repaired

Note: Mechanical preparation is the preferred method of preparing concrete for coating application. Shot-blasting, diamond grinding, scarifying and scabbling are all acceptable methods.

PATCHING

Voids, cracks and imperfections will be seen in finished coating if the concrete is not patched correctly. Patch concrete with E2U Patch. After the patching material is cured, diamond grind patch. If another patching material is used, contact a E2U technical representative for a compatible and approved alternative.

TESTING

All surfaces are not the same. It is recommended that a sample area be done before the start of the project. The test should be done on-site, using the proposed method by the assigned applicator to insure proper adhesion and color. A sample area should also be done on any existing coatings to determine if any contaminants exist or if delaminating will occur.

MIXING

The ratio of Metallic Epoxy is 2 to 1. That is, two parts A (resin) to one part B (hardener). Mix the following with a drill and mixing paddle. Note: If using a drill mixer, use a low speed (not to exceed 300 rpm) to prevent air entrapment.

1. Premix (1) 16 oz Metallic Powder Container into the 2gal of "A" Resin Container for 3 to 5 minutes. Allow to stand for minimum of 5 - 10 minutes to allow any air mixed in to escape.
2. Add 1 gallon of Part "B" Hardener and mix for another 60-90 seconds.
3. E2U Epoxy is designed to be immediately poured on the floor. Leaving mixed product in the container will greatly reduce pot life. Once poured out on the floor, 45-60 minutes of working time can generally be expected.

CLEAN UP

While in an un-reacted state, may be cleaned up with hot water and degreaser. Isopropyl alcohol or acetone may be needed once the resin begins hardening. Lastly, a strong solvent like methylene chloride may be required if resin is nearly set up.

WARNING! SLIP AND FALL PRECAUTIONS

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slipresistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. E2U Flooring recommends the use of angular slipresistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. E2U or its sales agents will not be responsible for injury incurred in a slip and fall accident.

KEEP OUT OF REACH OF CHILDREN

APPLICATION INSTRUCTIONS

Application of E2U Metallic Epoxy for a nominal 20 to 25 mil coating system is applied in a single coat.

1. Always apply in descending temperatures. Concrete is porous and traps air. In ascending temperatures (generally afternoon) the air expands and can cause out gassing in the coating. It is safer to apply coatings in the late afternoon, especially for exterior applications.
2. Optimum ambient temperature should be between 55-90°F during application. Note: Cure times are affected by ambient and slab temperatures. Temperatures of 55°F and lower can slow cure times. Temperatures of 85°F and higher will speed up working and times.
3. Apply at approximately 50-60 SF/gal by immediately pouring out blended material in a wavy ribbon while walking and pouring at the same time until a bucket is empty. ***DO NOT LEAVE A BUCKET UPSIDE ON FLOOR TO DRAIN****
4. Using a squeegee on a pole, pull E2U Metallic Epoxy at a uniform thickness over areas to be coated.
5. Using a 3/8" non-shedding phenolic (plastic) core paint roller, roll coating forwards and backwards.
6. Lastly, back roll in the opposite direction as step 5
7. Randomly spraying an activator such as denatural alcohol or acetone to achieve different look is optional, but not mandatory. The epoxy will flow and form it's own unique look on its own.

Handling Precautions

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin. Some individuals may be allergic to epoxy resin. Protective gloves and clothing are recommended.

WARRANTY

E2U products are warranted for one year after date of purchase. Please refer to the Limited Material warranty for additional clarification.

TECHNICAL DATA SHEET

4602 S 36th St • Phoenix AZ 85040 • 855.EPOXY2U (376.9928) • www.Epoxy2U.com