

# **POLYMER CONCRETE** (URETHANE CEMENT)

**3 COMPONENT, 1 TO 1 MIX RATIO EPOXY** 

# PRODUCT DESCRIPTION

EE2U Polymer Concrete is also referred to as "Urethane cement", which specifically designed for harsh environments where chemical, thermal shock and abrasions resistance are required. It is three (3) component and self-leveling, roller applied or trowel applied with 1/4" to 3/8" thickness. E2U formula makes the flooring system resistant to growth of Microbial/bacterial.

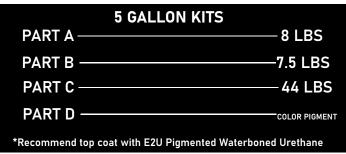
### AVAILABLE COLOR

Color Pigments are available- Matte Finish

### **APPLICATIONS**

- Food manufacturing & processing facilities
  Chemical processing plant
  Pharmaceutical plants
- Commercial kitchens
  Bottling sanitizing & wash areas
- Cold rooms & freezers

## PACKAGING



# **PRODUCT DATA**

Volumetric Ratio ————	1 to 1
Solids	100%(+ or-1%)
Coverage	45 SF/kit
Finish Floor will be 3/8 th inch thickness with 30 grit sand Boradcast I Application Temperature	
Thinning	Not Required
Pot Life	10 min.
Working Time	10-15 min.
Cure Time	6-8 hrs
Full Cure	48-72 hrs
V0C	0 m/l
Shelf Life ————	12 months
	4-6 months for Part C (aggregate)

### **ADVANTAGES**

- Essentially odorless
  High resistance to chemical, impact and abrasion
  VOC Compliant
  Superior adhesion to various substrates
  Self Priming & no top coat is required
- Does not support the growth of fungus or bacteria
- Fast curing & installation time
- Can be applied to 7-10 day old
- concrete
- Wide temperature in-service range

# 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 alterntive.

# PHYSICAL PROPERTIES

PROPERTY	VALUE	REFERENCE
Compressive Strength	9,800 psi	ASTM C 579
Flexural Strength	3,700 psi	ASTM D 790
Tensile Strength	3,900 psi	ASTM D 638
Bond to Concrete	400 psi	ASTM D 4541 (Concrete fails at this point)
Impact Resistence	PASS@125 mils	ASTM D 2794
Flammability	Self-extinguishing	
Hardness, Shore D	85	ASTM D 2240
Flash Point	>200°F	



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## CONCRETE PREPERATION

Before coating is applied, concrete must be:

- Free of dirt, waxes, curing agents and other foreign materials
- 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.

## **APPLICATION INSTRUCTIONS**

Pour the entire mixture evenly onto the surface as soon as possible after mixing. Use a Gage Rake with cams pre-set at 1/8", or 1/4" for desired their thickness or squeegee to spread mixture over the surface. Desired thickness of 1/4 th inch can be achieved in one pour. To increase skid resistance, add non-skid additive into your A& B mixture. Always maintain a wet edge.

## CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with Xylene or MEK.

### MIXING

Ensure all components are between 50 – 90°F. E2U Polymer Concrete kits are pre-measured, consisting of one pail of resin, one pail of hardener and one bag of aggregate. Pour entire contents of Part A & Part B into 5gal bucket or larger and mix well for 30 seconds. Slowly add Part C while under agitation. It is important to "wet-out" all parts of mix, scraping the bottom and sides of bucket. Mixing bucket and mixer/ blades should be scrapped out thoroughly and cleaned with solvents such as acetone, xylene. Prepare only the amount you can use in 10 minutes at 78F. (Higher temperatures reduce work time). Do not leave the mixed material in the bucket longer

than 10 minutes. Incomplete mixing will cause an inconsistent finish NOTE: Do not mix this product in direct sunlight or when temperatures exceed 90°F. Set up the mixing station as near to the work area as possible. Exposure to high temperatures will reduce the working time. DO NOT MIX UNTIL READY FOR IMMEDIATE USE.

#### 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 slip-resistant 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.

#### 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.



**KEEP OUT OF REACH OF CHILDREN**