

## PRODUCT DESCRIPTION

Epoxy2U CRU is a Chemical Resistant Urethane that is designed for speedy turn around. CRU has a pot life up to 60 minutes in real world conditions yet it dries generally 30 minutes or less after it is applied to con-crete. CRU will provide an extremely high gloss look due to its ability to dive deep into the concrete surface. Epoxy2U CRU has excellent chemical resistance, abrasion resistance and UV stability with low viscosity.

## ADVANTAGES

- Rapid Cure
- 65% ± 3% solids
- Long 90 minutes pot life
- Low VOC
- High gloss
- Low viscosity
- UV stability
- Great resistance to most chemicals
- Foot traffic in as little as 4 hours
- Pneumatic wheel traffic in as little as 36 hours
- Will cure at temperatures just above freezing

## PACKAGING

### 1.5 GALLON KITS

PART A \_\_\_\_\_ 1 GAL

PART B \_\_\_\_\_ 0.5 GAL

### 15 GALLON KITS

PART A \_\_\_\_\_ 10 GAL

PART B \_\_\_\_\_ 5 GAL

## MIXING

Use a 5gal mixing bucket: Using a jiffy-type mixing blade at 300 rpm, mix according to ratio listed on label of the CRU A-Component with CRU BComponent for two minutes making sure to scrape the sides and bottom of vessel to help ensure that all of both the A & B are thoroughly mixed.

## CURE TIMES

Allow CRU to become tacky before recoating, if necessary. Recoating after 30 minutes may require de-glossing of the surface by use of a floor buffer. Area may be opened to light foot traffic in 2-3 hours depending on environmental conditions. Area may be opened to light vehicular traffic in 12-24 hours depending on environmental conditions. Pilot lights and surrounding sources of ignition may be put back into service once solvent vapors have dissipated to a level below the lower explosion limit. Typically, this will take 3-6 hours after floor installation with adequate ventilation.

## PRODUCT DATA

|                               |                |
|-------------------------------|----------------|
| Volumetric Ratio _____        | 2 to 1         |
| Solids _____                  | 65%(+ or -3%)  |
| Application Temperature _____ | 50°-95°F       |
| Thinning _____                | Not Required   |
| Pot Life _____                | 60 min.        |
| Working Time _____            | 10 min.        |
| Cure Time(Dry to touch) _____ | 60-90 min.     |
| Coverage _____                | 200-300 SF/gal |
| Thickness _____               | 3-5 mils       |
| Shelf Life _____              | 12 months      |

## APPLICATIONS

- Garage floors
- Industrial & retail floors
- Any concrete floor
- Chemical Plants
- Warehouses
- Dealerships
- Commerical buildings and walkways
- Pharmaceutical
- Manufacturing

## PREPARATION

Note: Material has a pot life of 60 minutes based on an insulated 200 gram mass at a starting temperature of 77°F. Unlike epoxy, CRU will have a longer pot life if the material is left in the pail so pour out what will be needed only as needed. Expect a 45 minute pot life when working with a 2 gal. mas at normal temperature. Warning: Unlike Epoxy, this Polyurea material has a long pot life in the container than on the floor (it dries quick when in a thin film).

- Shut off all sources of ignition (open flame) prior to work and ground all equipment throughout the sealing process.
- Supply auxiliary ventilation as necessary to produce a safe working environment.
- This material causes light-headedness, use a NIOSH approved carbon filter respirator capable of filtering organic vapors.

## APPLICATION INSTRUCTIONS

Begin by cutting-in the concrete footings and edges with a brush. Pour a band of the mixed CRU material out onto the floor and begin rolling with a 1/4-3/8" nap roller. Work the material evenly to a wet film thickness of 4-5 mils (250-300ft/gallon). Try and work within the control or expansion joints usually found on concrete floors. Allow the CRU to dry to a slightly tacky state before proceeding to the next step. Following coats should be applied within 30 minutes of being tack free or light sanding may be needed to de-gloss the film. If the floor goes beyond tacky and is hard then it will need to be sanded to scuff it up so subsequent coats stick to it. Remember this system is designed for speed so don't take a long break after applying the CRU. You can also use a fingernail test; if it is fairly difficult to leave a fingernail imprint then you must sand or screen the surface before applying another coat.

## FILM PROPERTIES

### PHYSICAL PERFORMANCE PROPERTIES OF DRY FILM

All tests were conducted on 2.0 to 2.5 mil films, and air-dried for 7 days at room temperature.

| PROPERTY  | VALUE         |
|---|---------------|
| Hardness (Pencil/Sword)   | 2H/70         |
| Taber Abrasion (mg loss per 100 cycles, CS-17 wheel, 1000 load)       | 90            |
| Impact Resistance (Direct/Reverse)                                    | 140/140 (lbs) |
| Crosshatch Adhesion (Untreated Cold Rolled Steel/Untreated Aluminium) | 100%/100%     |

### QUV WEATHEROMETER (ALCLAD ALUMINIUM 1000 HRS.)

| PROPERTY      | VALUE     |
|---------------|-----------|
| Oxidation     | No Effect |
| Loss of Gloss | Slight    |

### CHEMICAL RESISTANCE: 7-DAY SUBMERSION

| PROPERTY             | VALUE                |
|----------------------|----------------------|
| Brake Fluid          | No Effect            |
| Transmission Fluid   | Slight Discoloration |
| Coolant              | No Effect            |
| Power Steering Fluid | Slight Discoloration |
| Gasoline             | No Effect            |
| Battery Acid         | Damaged              |
| MEK                  | <200 Double Rubs     |
| Acetone              | <200 Double Rubs     |
| Formula 409          | <200 Double Rubs     |

## CLEAN UP

Immediately cleanup splatter marks and tools with Acetone. Clean hands and exposed skin with mild soap and water, and/or citrus based hand-cleaner.

### 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.

We believe this product complies with all other applicable state and federal laws and regulations governing manufacturing, distribution and intended use. User is solely responsible for the legal disposal of this container and/or its contents.

**KEEP OUT OF REACH OF CHILDREN**

## TYPICAL PROPERTIES

| PROPERTY                                  | VALUE        |
|---|--------------|
| Appearance                                | Clear Liquid |
| Total Solids(% by weight)                 | 65           |
| Total Solids (% by volume)                | 65           |
| Surface Tension, Dynes/cm                 | 40           |
| Viscosity (Brookfield LVF), cps @ 25° C   | 300          |
| Density (lbs/gallon)                      | 8.32         |
| Specific Gravity                          | 1.0          |
| Flash Point (C Pensky-Martens closed cup) | <70°F        |
| Freeze/Thaw Stability                     | N/A          |
| Thermal Stability (28 days @ 52° C)       | No Effect    |
| Mechanical Stability                      | Good         |
| VOC (g/l)                                 | 0            |
| VOC (by Weight)                           | 0            |
| Tg (C)                                    | 66           |
| Tensile Strength, psi                     | 7000         |
| Elongation                                | 8%           |

## CONCRETE PREPARATION

Concrete shall be structurally sound and stable. Concrete shall be free of dust, dirt, grease, contamination, surface laitance, and other potential bond-breaking substances that could impair adhesion. All cracks, gouges, and other surface defects need to be addressed prior to coating installation. Substrate and ambient temperatures must be above 50F (10C) during installation of coating.

Relative humidity should not exceed 80% during installation of the coating. Environmental conditions must not be near the dew point during installation of the coating. Moisture Vapor Transmission of the substrate must not exceed 5 lb. per 1000 ft<sup>2</sup> per 24 hours. Diamond grinding to a CSP rating of 2 is the approved method of surface preparation.

### 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.



**MADE IN USA**