



# URETHANE 321-200

## 3 - COMPONENT URETHANE FLOOR FINISH

### Physical Properties

Mix Ratio (weights approximate):

Part A: 90 oz.

Part B: 32 oz.

Part C: 0.5 lbs.

Coverage: ..... 500 SF/Gal @ 4- 5 mil

Film Thickness: .....3.2 mil

Application temperature: .....50-90°F

Pot life: .....40-50 minutes

Tack Free (Dry to Touch): .....3-6 hours

Re-coat or Topcoat: .....6-10 hours

Light Foot Traffic: .....14-24 hours

Full Cure (Heavy Traffic) ..... 2-4 days

Shelf life: ..... 6 months.

### Color Pigments

Available as a clear base. The following reactive pigment packs can be added:

- Light Gray
- Medium Gray
- Dark Gray
- White
- Black
- Tan
- Beige
- Tile Red
- Safety Red
- Safety Blue
- Safety Green
- Safety Yellow

### Packaging

#### 1 Gallon Kit:

Part A ..... 1 Qrt

Part B ..... 90 oz

Part C ..... 0.5 lbs.

### PRODUCT DESCRIPTION

E2U Urethane 321-200 is a three component aliphatic urethane floor finish. It exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering and UV stability. The combination of A, B and C components will result in a satin (semi-gloss) finish. It must be applied at 4 - 5 mil thickness.

### APPLICATIONS

- Aircraft Hangers
- Auto Service Centers
- Cafeterias
- Metallic Floors
- Computer Rooms
- Indoor or Outdoor Service Areas
- Laboratories
- Warehouses

### ADVANTAGES

- Low odor
- Abrasion, Scratch resistant
- Chemically resistant
- Low VOC
- Flexible
- Slip resistant
- Long Pot life and working time

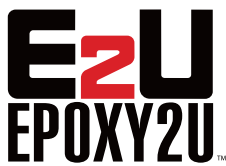
### TYPICAL PROPERTIES

PROPERTY	VALUE
Appearance	Clear
Finish Characteristics	Semi-gloss (Satin) with Part C
Total Solids (% by Weight)	95
Total Solids (% by Volume)	94 (± 2%)
Viscosity (Mixed liquids), cps @ 25° C	1000 – 1500
VOC (g/l)	< 50
Adhesion, psi	> 7500

### CHEMICAL RESISTANCE

REAGENT	RATING
Acetic Acid 5%	C
M.E.K.	B
Gasoline	D
50% Sodium Hydroxide	D
10% Sulfuric	D
10% Hydrochloric Acid	D
20% Nitric Acid	C
Ethylene Glycol	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.



# URETHANE 321-200

## SURFACE PREPARATION

Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system over concrete (3-10 mils dry), mechanical scarification or acid etching is recommended until a suitable profile is achieved. For a complete system build higher than 10 mils dry, use a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble-free bond to the substrate. Test 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 is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding. It is crucial that the epoxy basecoat is thoroughly sanded until the surface is de-glossed and thoroughly scratched. It is recommended that a minimum 80 grit paper be used.

## PRODUCT MIXING

Urethane 321-200 has three components. Part A should be mixed thoroughly with Part B for a gloss finish. Part C should be added and mixed thoroughly for a satin finish. The kits come prepackaged and should be used in their entirety and should not be broken down. If a color pack is used, it is recommended that the color pack be combined with Part A and Part B prior to adding the Part C aggregate, then mixed well. After the three (or four, if color packs are used) parts are combined, mix extremely well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. Avoid whipping air into the coating. Improper mixing may result in product failure. Once the material is opened, it cannot be re-sealed for later use.

## PRODUCT APPLICATION

Pour the mixed material into the application tray. Apply at the rate of 500-700 square feet per gallon in a uniform manner with a 3/8" nap roller. For uniform appearance, it is critical that the material is not applied above or below this application rate. Dip the roller in the coating and roll out excess material in the roller tray prior to the actual application to the substrate. Overlap subsequent passes, making sure no excess material is applied when overlapping. Make sure the floor has just enough material to cover evenly in a thin application. Finally, re-roll the area in the opposite direction of the first pass applications to level and even the application. Maintain temperatures and humidity within the recommended ranges during the application and the curing process. Make sure the substrate has a suitable epoxy primer that has been de-glossed (see surface preparation above) It is best to maintain a wet edge to avoid roller marks. Direct sunlight or high temperatures may cause visible roller marking during application. Too thick of an application may result in solvent entrapment and product failure. The surface must be dry before applying this product.

### WARRANTY

E2U warrants that their products are manufactured to strict quality assurance specifications and that the information supplied is accurate to the best of our knowledge. Such information supplied about products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications.

NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY

## PRIMER

Apply a suitable basecoat. For thin mil systems, use E2U Waterbase Epoxy in clear or in a color that matches the color pack for the Urethane 321-200 when colored. For a high build color or clear system, use E2U Metallic Epoxy (Clear or Metallic Pigmented) or E2U 100% solids pigmented epoxy.

## PRODUCT STORAGE

Store product at normal room temperature (60 – 90°F) before using.

## CLEANUP

Use ketone solvents or other suitable cleaning solvent.

## FLOOR CLEANING

Caution! Certain cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique.

## RESTRICTIONS

Restrict the use of the floor to light traffic, non-harsh chemicals and water until the coating is fully cured. Depending on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

## LIMITATIONS

For best results use a high quality 3/8" nap roller. Material has to be applied precisely at a 500 sq. ft. per gallon uniformly for proper appearance and development of physical properties. The epoxy basecoat must be abraded/de-glossed for proper adhesion. All new concrete must be cured for at least 30 days. Color or gloss may be affected by humidity, temperatures, chemical exposure, application thickness, exposure to lighting such as sodium vapor lights. Slab on grade requires moisture barrier. Colors may vary from batch to batch, therefore, use only product from the same batches for an entire job. Do not use if relative humidity is below 25%. Substrate temperature must be 5°F above dew point. Tire contact may cause staining and discoloration. Physical properties are typical values and not specifications.

PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY.

BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.

**KEEP OUT OF REACH OF CHILDREN**

## TECHNICAL DATA SHEET

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