E2U

TECHNICAL DATA SHEET

URETHANE 321

3 - COMPONENT URETHANE FLOOR SATIN FINISH

PRODUCT DESCRIPTION

Urethane 321 is a three component aliphatic urethane floor finish. It is extremely abrasion and scratch resistance. It is chemical resistant & UV stable. It is easy to apply and has a large coverage rate. The combination of A, B and C components will result in a satin (semi-gloss) finish. It MUST be applied at 2 - 3 mil thickness (500 - 600 sqft per 1gal kit).

AVAILABLE COLORS

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

APPLICATIONS

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

PRODUCT DATA

Coverage	500-600 sqft/gal. at 2-3 mil
Film Thickness	3.2 mil
Application Temperature	50°-90°F
Pot Life	5-10 min.
Dry to Touch	8-12 hrs
Light Foot Traffic	14-24 hrs
Full Cure	4 days
Critical Re-Coat Time	Single Coat Application
Shelf Life	6 months

ADVANTAGES

- Low odor
- Excellent Abrasion, Scratch resistance
- Chemically resistant
- Cost effective
- Low VOC
- Flexible
- UV Stable
- Slip resistant
- Long Pot life and working time

PHYSICAL PROPERTIES

PROPERTY	VALUE
Appearance	Clear
Finish	Semi-gloss (Satin) w/part C
Total Solids (%by weight)	95
Total Solids (% by Volume)	94(+/-2%)
Viscosity (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 splash spill | C - 8 hour term splash spill
D - 72 hour immersion | E - Long term immersion

PACKAGING

1 GALLON KIT

PART A	1 QRT
PART B	96 OZ
PART C	0.5 LBS

MIX RATIO

PART A	32 OZ
PART B	96 OZ
PART C	220 grams

NOTE: NEVER Mix less than Full gallon Kit - part "C" IS mandatory

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SURFACE PREPARATION

This product is specifically designed to be applied to smooth flat surfaces such as epoxy, another sealer coat or primed concrete with either an epoxy, or waterbased acrylic stain.
Ideal surface prep is to sand the surface with a 17" Clark Floor maintainer using 80 to 100 Grit sanding screens profiling the entire surface. Thoroughly clean and vacuum all dust, debris, and laitance prior to applying sealer. This product CANNOT be applied to, or used as a sealer coat to any of the following surfaces: Direct to bare concrete, broadcast floors such as Flake, Sand or Quartz or basically anything with a rough surface.

PRIMER

Apply a suitable basecoat. For thin mil systems, use E2U Primer in clear or in a color that matches the color pack for the E2U 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 Epoxy.

PRODUCT STORAGE

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

MIXING

E2U Urethane 321 has three components. Pour the entire Part C into Part B's pail and mixed thoroughly. Pour Part A into Part B's pail and mix extremely well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. 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. Avoid whip-ping air into the coating. Improper mixing may result in product failure. Once the material is opened, it cannot be re-sealed for later use.

CLEANUP

Use ketone solvents or other suitable cleaning solvent.

FLOOR CLEANUP

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

PRODUCT APPLICATION

Pour the mixed material into the application tray. Apply at the rate of 500-600 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.

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 a minimum of 500 sq. ft. per gallon uniformly for proper appearance and development of physical properties. The epoxy basecoat must be abraded/deglossed 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, ap-plication 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 50%. Substrate temperature must be 5°F above dew point. Tire contact may cause staining and discoloration. Physical properties are typical values and not specifications.

NOTE: WHILE THIS PRODUCT IS VOC COMPLIANT AND CONSIDERED TO HAVE A LOW TO MEDIUM ODOR IT IS HIGHLY ADIVSED NOT TO BE USED IN ACTIVE BUSINESSES OR OFFICES, KENNELS, HOSPITALS, SCHOOLS, STRIP MALLS, ETC, UNLESS IT IS NEW BUSINESS AND NOTHING IS OPEN AROUND IT.

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

MADE IN USA