

EP-U4000

## HIGH WEAR URETHANE



### CHEMICAL RESISTANCE

REAGENT	RATING
acetic acid 5%	C
mek	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.

NOTE: extensive chemical resistance information is available through your sales representative.

### VOLATILE ORGANIC CONTENT

Less than 95 grams per liter (for colors or clear mixed)

### COLOR

Opaque clear/amber

### REQUIRED FILM THICKNESS

3.2 mils per coat wet thickness (yields 3 mils dry)

### REQUIRED COVERAGE PER GALLON

500 square feet per gallon

### PACKAGING INFORMATION

1 gallon kits (1 pint part A) with (0.70 gallons part B) and (3.0# part C.) (weights and volumes approximate) (approximately 0.95 gallons)

### MIX RATIO

1.08# part A with 6.45# part B and 3.0# part C (weights approximate)

### FINISH CHARACTERISTICS

Semi-gloss/eggshell (typical gloss is 20-40 @ 60 degrees)

### TOPCOAT

We do not recommend multiple coats of this product or other topcoats.

### PRODUCT DESCRIPTION

Epoxy Plus EP-U4000 is a three component aliphatic urethane floor finish that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering and UV stability. Combine A and B components for a gloss finish. Combine A,B and C components for a satin finish. Combine A, B, and 1/4 of part C for a semi-gloss finish.

### RECOMMENDED

For auto service centers, warehouses, computer rooms, laboratories, aircraft hangers, cafeterias, indoor or outdoor service and chemical exposure areas.

### SOLIDS BY WEIGHT and VOLUME

Mixed= 93% solids by weight / 92% solids by volume (+,-2%)

### SHELF LIFE

6 months in unopened containers.

### ADHESION

On a properly prepared epoxy basecoat, the adhesion should exceed 300 psi @ elcometer (concrete failure, no delamination)

### VISCOSITY

Mixed liquids A/B = 1000-2000 cps (typical)

### DOT CLASSIFICATIONS

Part A "NA1993, COMBUSTIBLE LIQUID N.O.S., 3, PG III" Part B "ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S., UN3082, 9, PGIII,"

### CURE SCHEDULE (70°F)

pot life - 1 gallon volume (maximum time to apply)	1-2 hours
tack free (dry to touch)	6-8 hours
light foot traffic	14-24 hours
full cure (heavy traffic)	3-5 days

### APPLICATION TEMPERATURE

50-90 degrees F

### PRIMER

Apply a suitable basecoat. For thin mil systems, we recommend Epoxy Plus Waterbase Epoxy in clear or in a color that matches the color pack for the EP-U4000 when colored. For a high build color or clear system, we recommend Epoxy Plus Designer Metallic Epoxy (Clear or Metallic Pigmented) or Epoxy Plus 100% solids pigmented epoxy.

## TECHNICAL DATA SHEET

125 Broad Ave, Unit B13 North Bergen, NJ 07047  
(888) 361-2641 WWW.EPOXYPLUS.COM



## LIMITATIONS

Color or gloss may be affected by humidity, temperatures, chemical exposure, application thickness, exposure to lighting such as sodium vapor lights.\*For best results use a high quality 3/8" nap roller. Slab on grade requires moisture barrier Substrate temperature must be 5°F above dew point All new concrete must be cured for at least 30 days Physical properties are typical values and not specifications Tire contact may cause staining and discoloration Colors may vary from batch to batch, therefore, use only product from the same batches for an entire job.

See reverse side for application instructions. See reverse side for limitations of our liability and warranty. Do not use if relative humidity is below 25% 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.

## INSTRUCTIONS

### 1) PRODUCT STORAGE:

Store product at normal room temperature before using. Storage should be between 60 and 90 degree F.

### 2) 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) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend 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. A test should be made 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 appropriately and thoroughly scratched. It is recommended that a minimum 80 grit paper be used.

### 3) PRODUCT MIXING:

This product has three components. The part A should be mixed with the part B thoroughly for a gloss finish. Part C should be added and mixed well for a satin finish. Parts A and B and 1/4 of C for a semi-gloss finish. The kits come prepackaged and should be used in their entirety and SHOULD NOT BE BROKEN DONE. After the two or three parts are combined, (depending on desired finish) 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 resealed for later use.

### 4) PRODUCT APPLICATION:

Pour the mixed material into the application tray. Apply at the rate of 400-500sf per gallon in a uniform manner with either a 3/8" nap roller or a foam roller depending on desired finish. 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 being 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 during 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. Over rolling of semi-gloss and gloss formulation will result in possible roller marks, lap lines and/or orange peel texture. For full satin finish formulation more aggressive rolling may

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be required to achieve a uniform finish so that the Part C component is evenly spread throughout the coating. It is almost impossible to over roll the product when mixed as a satin finish. Please consult Epoxy Plus videos for product application demonstrations. The Surface must be dry before the application of this product.

### 5) CLEANUP:

Use ketone solvents or other suitable cleaning solvent

### 6) FLOOR CLEANING:

Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

7) RESTRICTIONS: Restrict the use of the floor to light traffic, non-harsh chemicals and water until the coating is fully cured.

Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

## NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our 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 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.