

HIGH PERFORMANCE URETHANE

PRODUCT DESCRIPTION:

High Performance Urethane is a two-component polyester/aliphatic polyurethane floor sealer that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering and UV stability.

RECOMMENDED FOR:

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

SOLIDS BY WEIGHT:

Mixed= 60% (colors); 56% (clear) (+,-2%)

SOLIDS BY VOLUME:

Mixed= 53% (colors); 53% (clear) (+,-2%)

VOLATILE ORGANIC CONTENT:

Less than 448 g/l

COLOR:

clear

RECOMMENDED FILM THICKNESS:

3-5 mils per coat wet thickness (yields 2-3 mils dry)
2 coats are required

COVERAGE PER GALLON:

250 - 400 square feet @ 3-5 mils wet thickness

PACKAGING INFORMATION:

3 gallon and 15 gallon kits 3 gal kit= 2 gallons part A (10.5#/gal-colors) or (8.75#/gal-clear) and 1 gallon part B (8.5#/gal.) (weights and volumes approximate)

MIX RATIO:

2 parts A to 1 part B by volume

SHELF LIFE:

1 year

FINISH CHARACTERISTICS:

High gloss (>80 at 60 degrees @ glossmeter)

ABRASION RESISTANCE:

Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 20.0 mg loss

IMPACT RESISTANCE:

Gardner Impact, direct & reverse = 160 in. lb. (passed)

FLEXIBILITY:

No cracks on a 1/8" mandrel

ADHESION:

360 psi @ elcometer (concrete failure, no delamination)

VISCOSITY:

Mixed = 200-400 cps (typical, most colors)

DOT CLASSIFICATIONS:

Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"
Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"

HARDNESS:

Shore D = 72

CURE SCHEDULE: (70°F)

pot life - 1 1/2 gallons volume 2-5 hours
tack free (dry to touch).....2-4 hours
recoat or topcoat..... 4-8 hours
light foot traffic.....14-24 hours
full cure (heavy traffic)...3-5 days

APPLICATION TEMPERATURE:

45-90 degrees F with relative humidity below 90%

CHEMICAL RESISTANCE:

REAGENT	RATING
acetic acid 5%	C
xylene	E
mek	B
methyl alcohol	B
gasoline	D
10% sodium hydroxide	E
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.

PRIMER:

CPI WB Epoxy can be used when indoor or where UV exposure is not a factor.

TOPCOAT:

Multiple coats are compatible

LIMITATIONS:

*Gloss may be affected by high humidity, low temperatures, chemical exposure, or exposure to lighting such as sodium vapor lights.

*For best results use a high quality 3/8" nap shed free 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

*See next page for application instructions.

*See next page for limitations of our liability and warranty.

MIXING AND APPLICATION INSTRUCTIONS

- 1) **PRODUCT STORAGE:** Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F.
- 2) **SURFACE PREPARATION:** We recommend using our CPI Super Prep diluted 1:1 with water to remove any laitance and create an open porous surface. If your surface is slick or tightly troweled we recommend mechanical scarification such as grinding to prepare you surface properly and achieve the porous surface required for this application. All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A Concrete Slab Moisture Test should be preformed to determine if the concrete is dry and suitable for application. This test is also useful to determine if any hydrostatic pressure problems exist that may later cause de-bonding.
- 3) **PRODUCT MIXING:** This product has a two to one mix ratio by volume (for example, mix two gallons of part A with 1 gallon of part B). After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer for 3 minutes, the material should be fully combined and streak free. Mix slowly but thoroughly to avoid whipping air into the coating. Improper mixing may result in product failure.
- 4) **PRODUCT APPLICATION:** The mixed material can be applied by brush or shed free roller. Maintain temperatures within the recommended ranges during the application and curing process. Properly prime the substrate. 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 the solvent in the product not being able to evaporate properly and the product may fail. Do not apply when relative humidity is higher than 75% as this may cause improper cure and surface tackiness.
- 5) **RECOAT OR TOPCOATING:** Two coats are required for best durability. Multiple coats of this product are acceptable. When recoating this product, you must first be sure that all of the solvents have evaporated from the coating during the curing process. The information on the first page is a reliable guideline to follow for average curing times. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then recoating can be started. Always remember that colder temperatures will require more cure time for the product before the next coat can be applied. Before recoating or topcoating, check the coating to insure no contaminants exist. Be sure that your surface is free of dust, dirt and contaminants. If contaminants are present within the finish of the previous coat a light sanding may be required, to remove contaminates that are present on top of the surface, mop with a neutral cleaner and allow to dry completely. When recoating this product with subsequent coats of the urethane, it is advisable to apply the recoat before 24 hour passes. If more than 24 hours has passed de-gloss (by lightly sanding) the previous coat to insure a trouble free bond.
- 6) **CLEANUP:** Use ketone solvents
- 7) **FLOOR CLEANING:** Caution! Some cleaners may affect the color of the floor installed. Only use cleaners that are pH neutral. Do not use acidic cleaners such as Vinegar, Pine Sol, or Bleach. 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.
- 8) **RESTRICTIONS:** Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data for full cure times). It is best to let the floor remain dry for the full cure cycle. 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

*This product is intended for use by trained professionals, experienced and trained in the use of these products. 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.***

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