

HIGH PERFORMANCE (VOC COMPLIANT) URETHANE

PRODUCT DESCRIPTION:

VOC Compliant High Performance Urethane is a two-component polyester/aliphatic polyurethane coating that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering, and UV stability. This product meets the VOC requirements for the newly enacted VOC laws of New York, Pennsylvania, New Jersey, and other states as an industrial maintenance coating.

RECOMMENDED FOR: Recommended for auto service centers, warehouses, computer rooms, laboratories, aircraft hangers, cafeterias, exterior tanks, indoor or outdoor service and chemical exposures areas.

SOLIDS BY WEIGHT:

64% (clear) (+/- 2%)

SOLIDS BY VOLUME:

60% (clear) (+/- 2%)

VOLATILE ORGANIC CONTENT:

VOC content is less than 335 g/l (mixed)

STANDARD COLORS:

clear

RECOMMENDED FILM THICKNESS:

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

2 coats are recommended

COVERAGE PER GALLON:

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

PACKAGING INFORMATION:

3 gallon and 15 gallon kits. 3 gal kit = 2 gallons part A (weight varies by color) and 1 gallon part B (8.5#) (weights and volumes approximate)

MIX RATIO:

2 parts A to 1 part B by volume (approximate)

SHELF LIFE:

1 year in unopened containers

FINISH CHARACTERISTICS:

high-gloss (>70 at 60 degrees @ glossmeter)

IMPACT RESISTANCE:

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

ABRASION RESISTANCE:

Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 22.0 mg loss

ADHESION:

350 psi @ elcometer (concrete failure, no delamination)

VISCOSITY:

Mixed= 200-600 cps (typical)

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= 62

FLEXIBILITY:

No cracks on a 1/8" mandrel

CURE SCHEDULE: (70°F)

pot life - (1 1/2 gallon volume).....2-4 hours

tack free (dry to touch).....3-5 hours

recoat or topcoat.....5-9 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%	B
xylene	D
mek	A
methyl alcohol	B
gasoline	D
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric	D
10% hydrochloric acid	C
20% nitric acid	B
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 on interior rooms or anywhere UV exposure is not a factor.

TOPCOAT:

Multiple coats are compatible

LIMITATIONS:

Clarity may be affected by high humidity, low temperatures, or chemical exposure.

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.

Tire contact may cause discoloration or staining.

Physical properties are typical values and not specifications.

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 as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degrees 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, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate. A Concrete Slab Moisture Test should be performed 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 part B. After the two parts are combined, mix with a slow speed mixing equipment such as a jiffy mixer until the material is thoroughly combined and streak free, mixing 3 minutes is recommended. Mix slowly but thoroughly to prevent adding air to product. Improper mixing may result in product failure.

4) **PRODUCT APPLICATION:** The mixed material can be applied by brush or 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 product failure. Exposure to certain types of lighting such as sodium vapor lights may cause the product to discolor. Applications with relative humidity higher than 80% and/or poor air circulation may cause improper cure and surface tackiness.

5) **RECOAT OR TOPCOATING:** Two coats are required for best durability. When recoating with this product, you must first be sure that all of the solvents have evaporated from the previous coating during the curing process. The information on the first page is a reliable guideline to follow. 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 the recoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating can commence. Before recoating or topcoating, check the coating to insure no contaminants exist. If contaminants are present within the finish of the previous coat a light sanding may be required, to remove contaminants 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 best to apply the next coat before 24 hours passes. Also, it is advisable to degloss the previous coat by lightly sanding 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. CPI recommends using pH neutral cleaners to prevent discoloration or damage to the surface. 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 under full cure). 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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