

### ALIPHATIC MOISTURE CURED URETHANE (40%)

**PRODUCT DESCRIPTION:**

Aliphatic Moisture Cured Urethane is a single component moisture cured polyurethane (HDI based) floor coating/sealer that exhibits superior characteristics for abrasion resistance, chemical resistance and flexibility. This product is UV stable. This product does not meet Federal VOC standards and is only available on a limited basis.

**RECOMMENDED FOR:**

Recommended for showrooms, warehouses, computer rooms, laboratories, cafeterias, interior tanks, and most indoor chemical exposure areas with regard to concrete or cement.

**SOLIDS BY WEIGHT:**

40% (+/- 2%)

**SOLIDS BY VOLUME:**

35% (+/- 2%)

**VOLATILE ORGANIC CONTENT:**

Less than 548 g/l

**COLOR:**

Clear (gardner 1)

**RECOMMENDED FILM THICKNESS:**

2-4 mils per coat wet thickness

**COVERAGE PER GALLON:**

400 to 800 square feet @ 2-4 mils wet thickness

**PACKAGING INFORMATION:**

1 gallon, 5 gallon and 55 gallon containers (7.9#/gallon net) weight and volumes approximate.

**MIX RATIO:**

One component product

**SHELF LIFE:**

3 months in unopened containers

**FINISH CHARACTERISTICS:**

High gloss (>90 at 60 degrees @ glossmeter)

**IMPACT RESISTANCE:**

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

**ABRASION RESISTANCE:**

Taber abrasor CS-17 calibre wheel with 1000 gram total load and 500 cycles= 4.3 mg loss

**ADHESION:**

360 psi @ elcometer (concrete failure, no delamination) (applied over NP154 primer)

**VISCOSITY:**

Less than 100 cps (typical)

**DOT CLASSIFICATIONS:**

"FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"

**HARDNESS:**

2H

**FLEXIBILITY:**

No cracks on a 1/8" mandrel

**CURE SCHEDULE: (70°F)**

pot life - (1 gallon volume).....3- 5 hours  
 tack free (dry to touch).....3-6 hours  
 recoat or topcoat.....8-12 hours  
 light foot traffic.....12-24 hours  
 full cure (heavy traffic)... ..3-5 days

**APPLICATION TEMPERATURE:**

50-90 degrees F with relative humidity between 60- 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 Water Based Epoxy

**TOPCOAT:**

None recommended

**LIMITATIONS:**

- \*Clarity of color or gloss may be affected by high humidity, low temperatures or chemical exposure.
- \*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.
- \*Use a suitable primer.
- \*Recoating other coatings or itself may require multiple passes with the roller to properly wet out the previous coating.
- \*If recoating after 24 hours, then the surface must be roughened (deglossed) before the application.
- \*The concrete or substrate must be thoroughly dry.
- \*See next page for application instructions.
- \*See next page for limitations of our liability and warranty.
- \*Physical properties are typical values and not specificatio**

# 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 is a single component product. Stir well before using. Avoid whipping air into the coating when stirring.

4) **PRODUCT APPLICATION:** The material can be applied by brush or shed free roller. Keep the temperature and relative humidity within the recommended ranges during the application and curing process. Properly prime the substrate. When applying product over primer or other coatings, always perform adequate testing to verify compatibility. In some instances, depending on the base coat, it will be required to roll the material in multiple passes to insure proper wetting of the surface. This product is intended for the experienced applicator and should not be used by inexperienced personnel.

5) **RECOAT OR TOPCOATING:** Multiple coats of this product are acceptable. If you opt to recoat 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 previous page is a reliable guidelines 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 such as an epoxy blush. If necessary, clean the surface prior to recoating with a standard type detergent cleaner. When recoating this product with subsequent coats of the urethane, it is advisable to apply the recoat before 24 hours passes. Also, it is advisable to apply the recoat before 24 hours passes. Also, it is advisable to degloss the previous coat to insure a trouble free bond, if more than 24 hours has elapsed since the previous coat. Recoats may require multiple roller passes to properly wet out the previous coats.

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 cleaner 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.

\*CPI recommends only using pH neutral cleaners on stained and sealed concrete.

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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