

ALIPHATIC MOISTURE CURED URETHANE (65%)

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 and chemical resistance. This product has good UV stability.

RECOMMENDED FOR:

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

SOLIDS BY WEIGHT:

65% (+/- 3%)

SOLIDS BY VOLUME:

60% (+/- 3%)

VOLATILE ORGANIC CONTENT:

Less than 329 g/l

COLOR:

Clear

RECOMMENDED FILM THICKNESS:

2-5 mils per coat wet thickness

COVERAGE PER GALLON:

320 to 800 square feet @ 2-5 mils wet thickness

PACKAGING INFORMATION:

1 gallon, 5 gallon and 55 gallon containers (volumes approximate.)

SHELF LIFE:

3 months in unopened containers

FINISH CHARACTERISTICS:

High gloss (>70 at 60° degrees)

ABRASION RESISTANCE:

Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 4.4 mg loss

IMPACT RESISTANCE:

Gardner Impact, direct & reverse= 100 in. lb. (passed)

HARDNESS:

2H

FLEXIBILITY:

No cracks on a 1/8" mandrel

ADHESION:

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

VISCOSITY:

Less than 200 cps (typical)

DOT CLASSIFICATION:

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

CURE SCHEDULE: (70°F)

pot life – (1 gallon volume).....3- 5 hours
 tack free (dry to touch).....4-7 hours
 recoat or topcoat.....9-13 hours
 light foot traffic.....13-24 hours
 full cure (heavy traffic).....3-5 days

APPLICATION TEMPERATURE:

50° - 90° 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 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 non-shedding 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
- *If recoating after 24 hours, then the surface must be deglossed before the application.
- *The concrete and joints must be thoroughly dry prior to application.
- *Applying the product thicker than recommended may result in product failure.
- *Applications in direct sunlight, high humidity or high temperatures may cause surface curing before suitable air release has occurred.
- *See second page for application instructions.
- *See second page for limitations of our liability and warranty.
- *Physical properties are typical values and not specifications.**

INSTRUCTIONS

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.

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 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.

PRODUCT MIXING: This product is a single component product. Stir well before using. Avoid whipping air into the coating when stirring.

PRODUCT APPLICATION: The material can be applied by brush or non-shedding roller. Be sure to thoroughly roll out the material in successive passes to make sure the substrate is well wetted out. Maintain temperatures within the recommended ranges during the application and curing process. Properly prime the substrate. Too thick of an application or application to a damp surface may cause product failure. When using a primer other than those listed on the front of this technical data sheet, apply a test patch before overcoating the primer to determine suitability and compatibility. Because the product is applied as a very thin protective coating, some environments that are dusty, may deposit dust particles on the surface that could be visibly seen. Always apply a test patch prior to large scale applications to determine product suitability.

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 first 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 and humidity will require more cure time for the product before recoating. 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 neutral 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 degloss the previous coat to insure a trouble free bond, if more than 24 hours has elapsed since the previous coat.

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.

CARE AND MAINTENANCE: Periodically inspect surfaces for wear or damage. All concrete sealers will eventually exhibit the effects of wear and traffic. For maximum life and performance, wipe up all chemical solvent or petroleum spills as soon as possible. Remove abrasive debris by sweeping or vacuuming. Periodic washing with a pH 7 (neutral) cleaner will help maintain surface luster. Some cleaners may affect the color or finish of your floors. If you are unsure of your cleaner type, test in a small area in the method chosen. If no ill effects are noted you should be able to continue to clean with the product and process tested. DO NOT USE solvent or acid based cleaning materials for general purpose cleaning. DO NOT USE cleaners such as Pine Sol, Bleach, or Swiffer Wet Jet. Steam mops should never be used on stained and sealed concrete as they may cause moisture to be trapped in the sealer and cause damage.

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.***

COPYRIGHT 9/1/12