

McKinnon Materials, Inc.

5612 56th Commerce Park Blvd.
Tampa FL, 33610
Phone: (813) 622-7031 Fax: (813) 621-9017

HI PERFORMANCE URETHANE

<u>Product Description:</u>	Two component polyester/aliphatic polyurethane floor sealer that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering, and UV stability. Clear and other gloss.			
<u>Recommended For:</u>	Recommended for auto service centers, warehouses, computer rooms, laboratories, aircraft hangers, cafeterias, exterior tanks, indoor or outdoor service and chemical exposure areas.			
<u>Application Method:</u>	Lambs wool applicator or high quality 3/8" nap solvent resistant roller.			
<u>Primer:</u>	Clear or Colored 3:1 Industrial Epoxy			
<u>Top Coat:</u>	None recommended	<u>Recommended Film Thickness:</u>	3-5 mils per coat wet thickness (yields 2-3 mils dry)	
<u>Solids by weight:</u>	Mixed= 60% (colors); 56% (clear) (+, - 2%)	<u>Solids by volume:</u>	Mixed= 53%(colors); 53%(clear) (+, - 2%)	
<u>Coverage per gallon:</u>	320 to 500 square feet @ 3-5 mils wet thickness			
<u>VOC:</u>	Less than 3.8 pounds per gallon	<u>Chemical Resistance</u> Reagent acetic acid 5% xylene mek methyl alcohol gasoline 10% sodium hydroxide 50% sodium hydroxide 10% sulfuric acid 10% hydrochloric acid 20% nitric acid ethylene glycol	Rating C E B B D E D D D C D Rating Key: A – not recommended B – 2 hr term splash spill C – 8 hr term splash spill D – 72 hr immersion E – long-term immersion	
<u>Mix Ratio:</u>	2 part A to 1 part B by volume			
<u>Finish characteristics</u>	High gloss (>80 at 60 degrees @ Erichsen glossmeter)			
<u>Shelf Life:</u>	1 year			
<u>Application Temperature:</u>	45 – 90 degrees F			
<u>Packaging Information</u>	3 gallon and 15 gallon kits; 3 gal kit= 2 part A (10.5#/gal-colors) or (8.75#/gal-clear) and 1 gallon part B (8.5#/gal) (weights and volumes approximate)			
<u>Cure Schedule (70°F):</u>	Pot Life – 1 ½ gallons by 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			

PERFORMANCE PROPERTIES

<u>Abrasion Resistance</u>	Taber Abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 20.0 mg loss
<u>Impact Resistance</u>	Gardner Impact, direct & reverse = 160 in.lb. (passed)
<u>Adhesion</u>	360 psi @ elcometer (concrete failure, no delamination)
<u>Flexibility</u>	No cracks on a 1/8" mandrel
<u>Viscosity</u>	Mixed = 200-400 cps (typical, most colors)
<u>Hardness</u>	Shore D = 72

Safety

Material Safety Data sheets are available from McKinnon Materials and should be consulted prior to use of the product. This product is intended for use by professionals only. Keep away from children and those not trained in the use and potential hazards involved.

Workers should wear gloves and goggles when mixing or applying product. Clean up with soap and warm water. Be sure to follow all label and MSDS cautions.

Important Notice

These products are sold subject only to the express warranties contained herein. There are no other warranties by McKinnon Materials of any nature whatsoever expressed or implied. Including any warranties of merchantability or fitness for a particular purpose in connection with this product. Buyer agrees that seller assumes no liability for remote or consequential damages of any kind which result from the use or misuse of the product. Information contained herein is based on data believed to be reliable; however it is the buyer's responsibility to satisfy itself of the product for a particular purpose. Material safety data sheets are available from McKinnon Materials and should be consulted prior to use of the product. This product is intended for use by professionals only. Keep away from children and those not trained in the use of potentially hazardous materials.

Warranty

McKinnon Materials warrants its products to conform to its manufacturing standards. McKinnon Materials will replace or refund the purchase price of non-conforming product at the seller's option; such remedy being exclusive of all others and sole remedy available to the buyer. Buyer hereby expressly waives claim to additional damages. Any claim under this warranty must be made in writing within 7 days of discovery of non-compliance and no later than two years from the date of delivery of product. No representative, distributor or applicator of these products is authorized to modify product, product data or warranty.

- 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:** Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (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.
- 3) **PRODUCT MIXING:** This product has a two to one mix ratio by volume- merely 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 until the material is thoroughly mixed and streak free. 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 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 solvent entrapment and product failure.

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 front side are 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. If a bluish or contaminants are present on a previous coat, remove with a standard detergent cleaner. When recoating this product with subsequent coats of the urethane, it is advisable to apply the recoat before 24 hour passes. Also, it is advisable to degloss 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. 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.

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. 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.**