



UGlaze-SB[®] Technical Data Sheet

PRODUCT DESCRIPTION:

UGlaze-SB is a one component moisture cured polyurethane (HDI based) floor coating/sealer that exhibits superior characteristics for abrasion resistance and chemical resistance and has good UV stability.

RECOMMENDED FOR:

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

Quick Facts

SOLIDS BY WEIGHT: 65% (+/- 3%)	FINISH CHARACTERISTICS: High-gloss (>70 at 60 degree) gram total load and 500 cycles= 4.4 mg loss
SOLIDS BY VOLUME: 60% (+/- 3%)	ABRASION RESISTANCE: Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 4.4 mg loss
VOLATILE ORGANIC CONTENT: Less than 329g/l	IMPACT RESISTANCE: Gardner Impact, direct & reverse= 100 in. lb. (passed)
COLOR: Clear (gardner 1)	HARDNESS: 2H
RECOMMENDED FILM THICKNESS: 2-5 mils per coat wet thickness	FLEXIBILITY: No cracks on a 1/8" mandrel
COVERAGE PER GALLON: 320-800 square feet @ 2-5 mils wet thickness	ADHESION: 360 psi @ elcometer (concrete failure, no delamination) (applied over UCoat Water based epoxy)
PACKAGING INFORMATION: 1 gallon and 5 gallon (volumes approximate.)	VISCOSITY: Less than 200 cps (typical)
MIX RATIO: One component product	DOT CLASSIFICATIONS: "FLAMMABLE LIQUID N.O.S, 3, UN1993, PGIII"
SHELF LIFE: 3 months in unopened containers	

CURE SCHEDULE: (68F)

Pot life – 1 gallon volume	3-5 hours
Tack free (dry to touch).....	4-7 hours
Recoat or topcoat.....	9-13 hours
Light traffic	13-24 hours
Full cure (heavy traffic)	3-5 days

IDEAL 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 - 7 Day exposure, F - long term immersion.

PRIMER: UCoat, UClad-LV recommended

TOPCOAT: No topcoat 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 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. Physical properties are typical values and not specifications. See reverse side for application instructions. See reverse side 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: 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'x4' 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 is a one component product. Before using stir well. Avoid whipping air into the coating when stirring.

4) PRODUCT APPLICATION: : The material can be applied by brush or roller. Be sure to thoroughly roll out the material in successive passes to make sure the substrate is well wetted out. Read the SDS before using. 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.

5) RECOATING 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 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 degloss the previous coat to insure a trouble free bond, if more than 24 hours has elapsed since the previous coat.

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. 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 of liability

This warranty applies only to the Do-it-yourself customer of UCoat It America, LLC and the UCoat floor coating products.

If a UCoat It floor coating should ever peel up, blister or lift from a properly prepared (previously untreated and uncoated) concrete floor surface during the lifetime of the original purchaser so long as the original purchaser continues to maintain ownership of the said coated floor and can provide an original proof of purchase; UCoat It America, LLC will at its option refund the customer the purchase price or replace the materials that have peeled or blistered.

UCoat It America, LLC and its agents and representatives entire liability for the warranty shall be limited and in no event shall extend beyond that which has been stated herein and granted to the do-it-yourself customer. Said liability shall not extend to indirect, specific, incidental or consequential damages as they may relate to handling, storage, use, misuse or improper application of UCoat It products.

Do-it-yourself is defined as a customer of UCoat It America, LLC who purchases a UCoat It product directly from UCoat It America, LLC or one of its authorized agents or representatives and applies/installs said product(s) himself/herself without modification or deviation from prescribed procedures written by UCoat It America, LLC and included with the purchased product(s) in his/her owned structure.

Limited warranty applies only to coated areas which are part of a dwelling or structure which is owned by the do-it-yourself customer.

Properly prepared floor is defined as a previously untreated/uncoated concrete floor in good condition where all preparation steps as defined by UCoat It America, LLC in written instructions have been successfully performed prior to application of a UCoat It product.

This limited warranty shall only apply to peeling, blistering or lifting that occurs to properly prepared floors as defined above. To activate your warranty, please completely fill out and send in warranty card at the back of this book.

Precautions and Limitation of Warranty

We warrant that our product is manufactured to the specifications as stated here or in other publications. All other 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.

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 the 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. Uncured epoxy resins, polymers and their curing agents may be alkaline, toxic or both, depending on the system. They may cause allergic reactions or hypersensitivity reactions. Before using any material, read the Material Safety Data Sheet and follow all precautions to prevent bodily harm.