



HPU 747 CLEAR

HIGH PERFORMANCE URETHANE TOPCOAT

ORIGINAL COLOR CHIPS CO - 26200 GROESBECK HWY - WARREN, MI



Original Color Chips High Performance Urethane (HPU) is a clear two component polyester/aliphatic polyurethane floor sealer that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering and UV stability.

HPU 747 is recommended as a high gloss topcoat for epoxy garage floors, decorative chip broadcasts, auto service centers, warehouses, computer rooms, laboratories, aircraft hangers, cafeterias, exterior tanks, indoor or outdoor service and chemical exposure areas. This product can only be used with adequate ventilation (not recommended for interior use such as basements, etc)

PRODUCT NUMBER:

HPU 747

SOLIDS BY WEIGHT:

56%

SOLIDS BY VOLUME:

53%

VOLATILE ORGANIC CONTENT:

Less than 3.8 pounds per gallon

RECOMMENDED FILM THICKNESS:

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

COVERAGE PER 1.5 GALLON KIT:

400 to 500 square feet @ 3-5 mils wet thickness

PACKAGING INFORMATION

.75 gallon kits (300 sq/ft), 1.5 gallon kits (500 sq/ft) or 15-gallon kits (4,500 sq/ft)

1.5 gallon kit= 1 gallon part A (8.75#/gal-clear) and .5 gallon part B (4.25#/gal.) (Weights and volumes approximate)

MIX RATIO:

2 parts A to 1 part B by volume

SHELF LIFE:

1 year

FINISH CHARACTERISTICS:

High gloss (>80 at 60 degrees @ Erichsen glossmeter)

ABRASION RESISTANCE:

Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 20.0 mg loss

IMPACT RESISTANCE:

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

FLEXIBILITY:

No cracks on a 1/8" mandrel

ADHESION:

360 psi @ elcometer (concrete failure, no delamination)

VISCOSITY:

Mixed = 200-400 cps (typical, most colors)

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 = 72

CURE SCHEDULE: (70°F)

pot life – 1 1/2 gallons 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

APPLICATION TEMPERATURE:

45-90 degrees F

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:

This product is not direct-to-concrete. A primer or basecoat is necessary.

LIMITATIONS:

- *Colors or gloss 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.
- *Substrate temperature must be 5°F above dew point
- *All new concrete must be cured for at least 30 days
- *Physical properties are typical values and not specifications
- *Tire contact may cause staining and discoloration, waiting full 5 days for full cure is recommended for vehicle traffic
- *See reverse side for application instructions.
- *See reverse side for limitations of our liability and warranty.



HPU CLEARCOAT

APPLICATION 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.

PRODUCT MIXING: This product has a two to one mix ratio by volume – for example in a 1.5 gallon kit merely mix 1 gallon of part A with .5 gallons 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.

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 (with basecoat or other sufficient primer). 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. Avoid coating if moisture is present, doing so may cause haziness.

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 blush 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. Degloss by lightly sanding or using a scotchbrite pad, then soften the coating by mopping a thinner (xylol, mineral spirits, or mek) over the surface and allowing to evaporate. This process is called tack-ragging.

CLEANUP: Use ketone solvents (M.E.K.).

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.

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.



DANGER! FLAMMABLE LIQUID AND VAPOR. HARMFUL OR FATAL IF SWALLOWED. ASPIRATION HAZARD - CAN ENTER LUNGS AND CAUSE DAMAGE. HARMFUL IF INHALED. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION. OVEREXPOSURE MAY CAUSE BLOOD, LIVER, KIDNEY DAMAGE. USE ONLY WITH ADEQUATE VENTILATION. KEEP OUT OF THE REACH OF CHILDREN.

EMERGENCY PHONE: Chemtrec 800-424-9300 (product code: NPI321)

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.**