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INDUSTRIAL-GRADE FLOOR COATING INSTALLATION:

Prior to painting your floor: PERFORM A MOISTURE TEST If you sometimes see tiny crystals or white powder on your floor, this could be moisture migrating through the concrete, which will often cause peel up of any kind of coating you apply. Put a rubber mat on the floor or tape down a 3 by 3 ft (or so) sheet of plastic. Wait overnight. If water collects between it and the floor there is a moisture problem and any floor paint will probably not cure/dry properly. If the Water Test fails, please contact us regarding further options.

PERFORM THE SEALER TEST If your concrete has been treated with some sort of cement sealer no epoxy will stick to it. Pour water on the cement. It should soak into the cement in a reasonable time. If it beads up or just sits there for a long time, the concrete has been sealed. The Etch N' Clean solution will dissolve oil and grease stains but will not cut through a sealer. The floor must be grinded or shot blasted to cut through the sealer.

WARNING: COMBUSTIBLE LIQUID AND VAPOR. CAN CAUSE EYE BURNS! ASPIRATION HAZARD - CAN ENTER LUNGS AND CAUSE DAMAGE. USE ONLY WITH ADEQUATE VENTILATION. A respirator with OV cartridge is recommended during application. Keep away from heat, sparks and flame. Do not smoke. Vapors may ignite. Extinguish all flames, burners, stoves, heaters and pilot lights and disconnect all electrical motors and appliances before use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.

PATCHING: Patching of pits and cracks is an optional step. Patch all pits and cracks by utilizing a concrete patching compound prior to using the Etch 'N Clean solution. Use a self-leveling sealant if you wish to fill in expansion joints, etc (optional). Fillers must dry overnight before applying the acid wash solution.

SURFACE PREPARATION: Concrete Surfaces: No matter how new OR clean the concrete is, it will need a rough textured surface in order to achieve maximum epoxy adhesion. The rougher the better. Etching opens up the pores of the concrete to allow the epoxy to sink into the floor, thus allowing the base coat to adhere securely. Roughen slick concrete as well remove any oil, grease, and dirt by utilizing *The Original Color Chips* Etch 'n Clean Solution. The Etch 'n Clean will provide both the cleaning and the profiling (roughening the surface) in one operation. Pour uniformly onto surface and scrub into the pours of the concrete with a stiff bristle broom. Wait 7-10 minutes. Triple rinse **thoroughly** with water (power washing is ideal) and allow to dry a minimum of 3-4 hours. Remove loose aggregate by sweeping. All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew, form release agents, curing compounds, efflorescence, loose and flaking paint and other foreign substances prior to applying basecoat. See reverse for tutorial on etching successfully.

Previously Painted Surfaces: Old coatings should be tested for lifting. If lifting occurs, remove the lifted coating. Scuff / Sand glossy areas and aged epoxy coatings. Then recoat.

BASECOAT MIXING INSTRUCTIONS: Do not apply over wet surfaces or under very humid conditions where condensation or fog could settle on the coating during the cure process. The entire contents of each container (224HS Part A and 224 Converter) must be mixed together in a separate container (5-gallon bucket preferred). Mix both portions first to obtain a smooth, homogeneous condition. Then pour Part A into bucket, adding the converter slowly with continued agitation. After the converter add is complete, continue to mix. You want to mix it for a minimum of 6 minutes (either by hand or with mixer).

*Adding Xylene while mixing will thin the product and allow it to 'stretch' even further, and makes for easier application. Start with 8 oz per gallon of epoxy, adding more if necessary. Allow the mixed material to stand 15 minutes at 60-80°F (16-27°C) before use. Restir before use. **Mixed material is usable for 6 hours.** Higher temperatures will reduce working life of the coating; lower temperatures will increase it. **Coverage:** 400-450 Square feet per 2- gallon kit. (if thinned with Xylol Xylene, more coverage can be achieved.)*

APPLYING THE BASECOAT/CHIPS: After material is thoroughly mixed, Start Painting in the corner furthest away from the exit of the room. Use a brush to cut in along the walls, use a good quality ½ inch nap roller to roll material on floor surfaces away from the wall. After painting approximately 6 feet from the starting point you should begin to apply the chips. Chips are applied by tossing them **upward** toward the ceiling allowing them to float down into the wet basecoat. (we recommend throwing chips similar to shooting a basketball, with the wrist at an upward angle) Continue painting approximately 6 foot wide sections and tossing chips until entire floor is complete. Note: be careful not to drop chips in handfuls directly down onto floor, once chips are placed they cannot be moved. **Dry Time:** At 77°F (25°C), dries to recoat with epoxy or urethane in 6 hours and dry hard in 9 hours.

TOPCOAT APPLICATION: Our High Performance Urethane is a flammable liquid and very fumous, therefore it is recommended to wear the disposable OV respirator included in the package. Make sure are is well ventilated while applying and leave garage bays open while curing. Once ready to apply topcoat (at least 6 hours after the basecoat is applied – or until it is no longer tacky), mix Part A (1-gal) and Part B (.5 gallon) together (equals one and half gallons). Our High Performance Urethane (HPU) is a two-component product. The entire contents of each container must be mixed together. It is important that all mixing equipment is free of moisture and that moisture does not contaminate the coating. Mix the base portion to obtain a smooth, homogeneous condition. After mixing the base portion, add the converter slowly with continued agitation. Mix thoroughly. **The pot life of the mixed material is 3 hours at 77° (25°C).** Higher temperatures will reduce working life of the coating; lower temperatures will increase it. Roll one even coat of HPU over entire surface to be coated, When applying topcoat walk on previously applied chip/basecoat with clean shoes or socks only, any dirt or debris tracked on to chip/ basecoat will be sealed in by application of clear topcoat. **Dry Time: Dries to light foot traffic on concrete floors in 14-24 hours.** You can move heavy items on it in 36-48 hours. **Full cure in five days.** Low temperature, high humidity, thick films or poor ventilation will increase these times. Lack of ventilation and/or the use of portable fuel burning heaters that produce exhaust gases, during application and initial stages of curing, may cause yellowing to occur.

HELPFUL HINTS: Be sure to have enough chips to do entire surface. (1 bag per 250 square feet for Light sprinkle, 2 bags per 250 square feet for medium sprinkle, etc). **We usually recommend a three day process: Day 1: etch and clean the surface, repairing pits and cracks, the next day apply your base coat and chips, and Day 3 roll on your top coat. Or wait 6 hours after applying basecoat to apply topcoat.**

Clean-Up: Clean brushes rollers and equipment with a T-10 Thinner or Xylene.. Applying this product in cold climates will not affect the protective properties, however, it will double your drying/curing times.