



## APPLICATION INSTRUCTIONS: WATERBORNE EPOXY FLOOR COATING KIT WITH PRIMER COAT

The Original Color Chips Company  
28200 GROESBECK HWY  
WARREN, MI 48089 USA  
1-800-227-8479  
www.originalcolorchips.com

**SURFACE PREPARATION: Concrete Surfaces:** 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. Remove laitance and roughen unusually slick poured or precast concrete as well 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. Etching the concrete allows the base coat to adhere securely. Pour 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 5 hours. Remove loose aggregate by sweeping.

**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.

**PRIMER COAT:** Slowly add converter (4030-9999 Component B) to Pigment (4030-6130 Component A) in a 1:4 ratio. Stir until thoroughly mixed. Allow 30 minutes at 60°-80°F (16°-27°C) reaction time. Stir again before using. Mixed life at 60°-80°F (16°-27°C) is eight hours. Higher or lower temperatures will vary the mixed life. Apply at 270-300 sq. ft./gal. Apply at 270-400 sq. ft./gal. (6.0-10.0 m<sup>2</sup>/L) or 4.0-6.0 mils wet (2.0-3.0 mils dry). Actual coverage may vary depending on substrate and application method. Use clean short nap roller (new rollers must be free of loose fibers). Brushing is best reserved for small areas of "cutting in". **Drying Time:** At 77°F (25°C), dries to touch in two hours and to recoat overnight ( or 16 hours). Maximum recoat time up to one week.

**BASECOAT MIXING INSTRUCTIONS:** Slowly add Basecoat Part B to Basecoat Part A in a 1:1 ratio. (entire half-gallon to half-gallon). Stir thoroughly and scrape sides of can to ensure thorough blending. Allow the mixed material to stand 45 minutes at temperatures below 70°F (21°C) before use. Above 70°F (21°C) allow 30 minutes induction time. Always restir before use. Mixed material is usable for six to eight hours. Do not thin with solvents use water if thinning is necessary. Do not add flow-control materials.

**APPLYING YOUR BASECOAT/CHIPS:** 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 epoxy can be applied by brush, roll or spray. For roller application, use clean medium nap synthetic roller (new rollers must be free of loose fibers). A good quality 1/2 inch nap roller is recommended). Brushing is best reserved for small areas of "cutting in". Do not apply when surface or air temperature is below 50°F (10°C).

**Start Painting:** 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 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. *Note: Multiple colors of chips should be mixed together in a separate container prior to beginning the application.* Chips are applied by tossing them upward toward the ceiling allowing them to float down into the wet basecoat. (we recommend an overhand / baseball pitcher-style throw) 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. **Coverage:** Apply at 220-250 sq. ft./gal. or 5.0-7.0 mils wet (2.0-3.0 mils dry) on smooth, surfaces. **Dry Time:** Application temperature range is 60°-95°F. At 77°F (25°C) dries to touch in two hours and to recoat overnight (or 16 hours).

**Non-skid Application:** Surfaces coated with high-gloss epoxy may become slippery when wet. For additional slip resistance in areas of pedestrian traffic, use the Non-Skid Additive. While applying your color chips, use the Original Color Chips Easy Sprinkle Can to sprinkle grit onto basecoat.. Be sure **not** to apply non-skid in too high-concentration. Sprinkle at (1) 1.5 lb. can of non-skid per 500 square feet.

**TOPCOAT APPLICATION:** Once your ready to apply topcoat (waiting overnight for the basecoat to efficiently cure), mix Part A and Part B together (equals one gallon). Refer to the basecoat mixing and application instructions for the Topcoat. It will be the same procedures. Be sure to roll one **even** coat of Crystal Clear topcoat to entire surface to be coated. Material will go on as a milky white (may even look like white paint) and dry Crystal Clear. Smooth out any visible clumps of clear coat. If you come to the end of your floor and you still have clearcoat left over do not use the mixed material to add thickness to the layer you just put down. Discard unused material (if mixed). Applying Clearcoat ovetop of itself without waiting for the first layer to cure will cause curing problems. If you do decide to double coat the clear top coat, please allow at the **minimum** of 24 hours for the first layer to cure before attempting a second coat. (heavy or full broadcasts of chips often calls for a double layer of clear coat.)

**Dry Time:** Dries to light foot traffic on concrete floors in 24-48 hours. You can move heavy items on it in 36-48 hours. **Full cure in seven 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. **Clean-up:** Clean immediately after use with warm, soapy water. Rinse pumps and hoses with xylene after cleaning.

**HELPFUL HINTS:** Be sure to apply the material at 220-250 square feet per gallon. 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) 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. Throw chips upward *not* downward. A second person may apply chips in conjunction with the first person rolling the basecoat. Once you mix the product you only have 6 hours to work with it before it hardens. **We usually recommend a three day process: Day 1: etch and clean the surface and primer Day 2: apply your base coat and chips, and Day 3 roll on your top coat. Or wait 6 hours after applying basecoat to apply topcoat.**