



The Original Color Chips Company
26200 GROESBECK HWY
WARREN, MI 48089 USA
1-800-227-8479
www.originalcolorchips.com

INDUSTRIAL-GRADE FLOOR COATING INSTALLATION:

Patching: Patching pits and divots (optional) is the first step of the process. Remove loose aggregate and repair voids. Fill pits and pock marks by using a patching compound or concrete patch with sand to achieve a thick 'peanut butter' thickness to trowel into the voids. Wait 24 hours for compound to fully cure before acid-etching.

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 grinding or shotblasting or by utilizing *The Original Color Chips Etch n' Clean Solution*. The Etch 'n Clean has the ability to provide both the cleaning and the profiling (roughening the surface) in one operation. Etching the concrete allows the coating to adhere securely. After diluting the etching solution (mix 1 gallon of etch 'n clean with 1 gallon of water) pour onto surface. Scrub the solution into the pores 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 8 hours. Remove loose aggregate by sweeping or vacuuming.

Previously Painted Surfaces: Acid etching is not necessary when recoating existing paint /epoxy. Old coatings should be tested for lifting. If lifting occurs, remove the lifted coating. Scuff / Sand glossy areas and aged epoxy coatings. After the floor has a texture to it you are ready to start coating your basecoat. (the preprime isn't necessary on existing coatings)

PRIMING: The Preprime 167 penetrating sealer will improve the effectiveness and efficiency of the coating by penetrating and sealing the concrete plus provide an additional bonding coat for your basecoat; improving the service life of the maintenance system. The entire contents of each container (part a and part b) must be mixed together. Add the converter portion to the base portion slowly with continued agitation. Once the two components are mixed you have 4 hours to use it. The Preprime has a very low viscosity (much like water) so usually one gallon will coat over 500 sq ft on properly prepped concrete. It MUST be applied in one thin, wet coat sufficient to completely cover and penetrate the surface. Do not apply heavy coats. There should be NO POOLING, just a thin layer to soak into the concrete. After it has been applied, wait overnight before applying basecoat epoxy. (or wait until the preprime becomes tacky and use spiked shoes to start painting your basecoat). **Note: must be topcoated within 72 hours of application.**

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 (with electric mixer). It MUST be mixed thoroughly.

Due to the thickness of the 224 product, it is highly recommended to thin the material slightly to allow easier workability and coverage. Thin a 2-gallon mixture with 8-10 ounces of Xylol Xylene. 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:** 200-250 Square feet per gallon over primed concrete.

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 handfls 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 with a very powerful odor, therefore it is recommended to wear a organic vapor respirator. Make sure area is well ventilated while applying and leave garage bays open while curing. Keep area cross-ventilated. (no exposed flame) **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 is not recommended during application.

We usually recommend a three day process: Day 1: MORNING - etch and clean the surface and let dry out for several hours in the AFTERNOON - apply the preprime. Day 2: AFTEROON - apply your base coat and chips, and Day 3 MORNING - roll on your top coat.

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.