

Application Instructions

Etch 'n Clean

Do not apply when surface or air temperature is below 50°F (10°C).

Summary

Concrete floors require preparation before applying epoxy coating system. The preparation usually involves cleaning the surface to remove oil and other unwanted contaminants then "profiling" the concrete by etching with acid or by mechanical abrasion (ie;shot-blasting or etching with a diamond grinder). If the concrete is new or does not have heavy oil contamination it still needs to be etched. Etching / Roughening the concrete will provide proper epoxy adhesion. The **Etch 'n Clean** will provide both the cleaning and the profiling in one operation.

New concrete may have been treated with a sealer (ie:"cure & seal") to provide resistance to water. **Etch 'n Clean** will NOT a sealed floor. However, if the concrete is very old, there could be a possibility the sealer has 'worn off'. You can pour water on the concrete to see if it soaks in to test or you can test by applying a drop of **Etch 'n Clean** to surface. If small bubbles appear, the **Etch 'n Clean** is reacting with the sealer and will remove it. If no bubbles appear, **Etch 'n Clean** will not remove it.

If the concrete has been steel-trowelled, the surface will be very smooth. This finishing technique works fine cement particles to the surface creating a very hard, dense finish. Steel-trowelled floors may require multiple applications to achieve the desired profile.

Equipment

- Plastic sprinkling can or 3 gallon plastic garden sprayer
- Push broom with stiff bristles (natural or synthetic)
- Water for rinsing (hose with high pressure)

Optional Equipment

- Long-handled squeegee
- Wet-dry Vacuum

Usage Tips

- Work in 10'x10' sections. Working in larger sections may prevent rinsing before the solution begins to dry resulting in white powdery residue.
- If available, use the squeegee or wet-dry vac to remove the etching solution before rinsing.
- Do not apply the solution with a mop. Mopping smears the solution over the surface and does not apply enough solution uniformly for effective etching.
- We recommend using a stiff bristle broom and scrubbing the pores of the concrete as you pour out the solution.

Method

- Dampen a 10'x10' section. A little water on the surface helps activate the etching solution.
- Apply the Etch 'n Clean solution so that a uniform film covers the section to be treated.
- Allow 5 minutes contact time.
- Using the push broom, scrub the solution into the floor working in one direction and then scrub across the surface at 90° to the first direction.
- Allow the solution to remain on the surface for an additional 2-5 minutes.
- If available, use a squeegee to remove the etching solution before rinsing. Otherwise, rinse using plenty of water. Scrub the surface while rinsing to insure complete removal of

the etching solution.

- Move to an adjacent area and repeat the process

Troubleshooting

- A white haze, white streaks or white, powdery dust on the surface after drying is caused by waiting too long before rinsing or by inadequate rinsing. The white powder is a combination of cement particles released from the surface and a precipitate byproduct of the etching reaction, insoluble calcium phosphate. Remove as much as possible by sweeping, scraping or vacuuming. A light dusting typically will not show through a clear coating and will not affect adhesion.
- Look for areas on the treated surface that are darker or shinier than the rest of the treated surface. Water beading or breaking on these areas signal that the surface is not ready for the coating application and should be treated again.
- If water soaks into the treated surface without beading or breaking and the surface has the degree of profile specified by the coating manufacturer, the surface is ready for the coating application.
- Neutralizing the surface after etching is not required because Etch 'n Clean is self-neutralizing. Once the bubbling stops, the remaining mildly acidic solution is easily removed by thorough rinsing.

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for the injury from expressed use of the product described herein.

System

Application Instructions

GENERAL SURFACE PREPARATION

Do not apply when surface or air temperature is below 50°F (10°C).

Concrete Surfaces: - Concrete must be clean, dry and contaminant free. New concrete must be allowed to cure for a minimum of 30 days. Remove any Oil, Grease, and dirt by Utilizing Etch n' Clean Solution. If your surface is smooth it must be roughened up or sanded. Etching the concrete allows the base coat to adhere securely.

Other Surfaces: - Wood, etc. Surfaces must be clean, dry and contaminant free. (A double base coat is recommended for wood surfaces).

Epoxy Penetrating Sealer: After you have etched and cleaned the concrete, you should apply the penetrating sealer with a roller and let it dry for one full day to ensure the concrete is properly sealed and ready for the basecoat.

APPLICATION INSTRUCTIONS

Do not apply when surface or air temperature is below 50°F (10°C).

Basecoat / Chips: - After the epoxy penetrating sealer has been given one full day to dry, pour the entire contents of the epoxy Part B into the Part A thoroughly mix the two together for approximately 3 minutes. Kit equals 1 gallon. If the two parts are not mixed together properly the coating will not dry or harden. 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. (Induction means letting the mixture stand, to let the chemicals react with one another) Always restir before use. Once material is mixed it must be used within 6-8 hours, after that the material will begin to harden and become un-useable. **Coverage:** 200-250 Square feet per gallon kit. This is equal to a one-car garage.

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. Note: Multiple colors of chips should be mixed together in a separate container prior to start of application. Chips are applied by tossing them upward toward the ceiling allowing them to float down into the wet basecoat. (we recommend an overhand 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. Allow basecoat/chips to dry 8-10 hours. Application temperature range is 60°-95°F. At 77°F (25°C) dries to touch in two hours and to recoat overnight.

Topcoat / Non-Skid: - Once ready to apply topcoat, mix Part A and Part B together (equals one gallon). Induction is 30 minutes. 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 walls. Roll one even coat of Crystal Clear topcoat to entire surface to be coated. Non-Skid may be broadcast and back rolled over during application of clear topcoat. Note: Material will go on as a milky white (may even look yellow) and dry Crystal clear.

Helpful Hints: - Be sure to apply the material at 200-250 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. We usually recommend a three day process: Day 1: etch and power wash the surface, the next day apply your base coat and chips, and Day 3 roll on your top coat.

Drying / curing times: - Dry to touch 30-60 minutes. Dry to recoat 8-10 hours. Dry to foot traffic 24 hours. Dry to vehicle traffic 4-7 days.

PRECAUTIONS

*** WARNING! CAUSES EYE AND SKIN BURNS. 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 RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. OVEREXPOSURE MAY CAUSE BLOOD, LIVER, KIDNEY DAMAGE. WHEN TINTED, CONTAINS ETHYLENE GLYCOL WHICH CAN CAUSE SEVERE KIDNEY DAMAGE WHEN INGESTED AND HAS BEEN SHOWN TO CAUSE BIRTH DEFECTS IN LABORATORY ANIMALS. USE ONLY WITH ADEQUATE VENTILATION. KEEP OUT OF THE REACH OF CHILDREN.**

NOTICE: This product contains solvents. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. For emergency information call (800) 545-2643. If sanding is done, wear a dust mask to avoid breathing of sanding dust. Do not breathe vapors or spray mist. If you experience eye watering, headaches, or dizziness, leave the area. If properly used, a respirator may offer additional protection. Obtain professional advice before using. Close container after each use.

FIRST AID: In case of skin contact, wash off **quickly** with plenty of soap and water, remove contaminated clothing. For eye contact flush **immediately** with large amounts of water, for at least 15 minutes. **Obtain emergency medical treatment.** If swallowed, **obtain medical treatment immediately.** If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs, **get medical help. KEEP FROM FREEZING.**

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for the injury from expressed use of the product described herein.