



ARMORFLECK & ARMORFLECK-EX INSTRUCTIONS

READ INSTRUCTIONS CAREFULLY BEFORE MIXING AND APPLYING

Note: Epoxy must be applied between 50-90 deg F and when relative humidity is 80% or less. Material should never be allowed to freeze. It should be stored in a dry area at temperatures between 60-95 deg F. Material must be above 60 deg F for installation. Install only in areas with proper ventilation. Wear safety glasses, protective clothing and rubber gloves for the duration of preparation and application of Armor Chip.

BEFORE YOU START: Not included in the kit you need to supply the following: Roller frame and extension pole, 3" brush. Also a mechanical type mixer that you attach to your drill is very helpful, but not required.

Surface Prep- THE MOST CRITICAL STEP to assure the performance of the Armor Chip system is to apply the product to a clean, well-prepared surface. The surface must be free of debris, dirt, oil, curing compounds, sealers and loose paint. Even new concrete must be cleaned to remove dirt, dust, and salts that form as the concrete cures.

Step One- Remove any foreign substances such as any surface debris such as putty, paint or any other substance that is raised above finished floor, so that the surface is smooth and even. Use running water or a pressure washer to flush the entire area to remove any loose dirt and debris from the surface. Concrete can also be sanded to remove uneven surface problems.

Step Two- Cleaning, degreasing and etching. Clean floor with power washer or high pressure hose and stiff bristle broom to remove all dirt. If there any oil or grease stains they must be removed with an oil/degreaser product (Armorpoxy carries several products for this purpose). Once cleaned Mix the etching solution according to package instructions. Pour out and spread the solution over the area to be coated with the aid of a stiff bristle broom, scrub vigorously, and allow it to soak in for 10-15 minutes.

After the solution has been allowed to soak and emulsify the remaining residues and dirt in the surface for 10-15 minutes, scrub the entire surface again with a stiff bristle broom. Rinse **thoroughly** the entire surface with plenty of fresh, clean water to remove all the etching solution and any loose dirt or debris.

Hint—Broom off any puddles of water with a clean broom prior to beginning the installation. After removing the standing water the floor should be clean. If it does not appear to be clean or appears to be saturated with oils, then you must repeat the surface prep instructions above. Use additional cleaner/degreaser to remove the grease and oil. A wire brush may be needed for extreme areas. Begin installation when the concrete surface is clean and dry. For best results let dry overnight. Test your floor to check that any remaining sealers or coatings have been etched away by dribbling a few drops of water around. If it does not bead up, then the floor can be coated. If the drops do still bead, then repeat the etching procedure.

MIXING

ArmorFleck is a two component epoxy resin. It requires the thorough mixing of the Part 'A' and Part 'B' components for the material to properly harden. Mixing can be done by using the mixing stick provided in the kit or it can be enhanced through the use of an electric drill and a paint mixing paddle available at most hardware stores. High speed mixing should be avoided so that the air bubbles are not captured in the mixture. If using the ArmorFleck-EX product, only mix up ½ of the products so you will have the second half to apply after the first coat is dry.

Step One-Open the part A & B cans and stir each individually. Make sure in the pigmented can to get any settled pigments mixed into the liquid.

Step Two-Pour the contents from Part A and the contents of part B into the large plastic pail. Mix a small batch at first, making sure to hold 50/50 mix ratio! Then mix larger batches as you get into a rhythm of applying the paint and chips. Be certain to empty all of the material from each Part of the containers. Mix the two components together for 90 seconds, but NOT more than 120 seconds. (over mixing can cause premature hardening) Be sure to scrape the sides and bottom of the containers to assure that all the material is properly mixed. Improperly mixed resins will not harden properly or show color variations when applied.

After the components are mixed together you have approximately 1 hour of working time to apply at 75 deg F. Work diligently and quickly to avoid premature hardening and product failure. Premature hardening is not covered under warranty. DO NOT MIX IN DIRECT SUNLIGHT. You can mix as much or as little of the material as you like, as long as you hold the mix ratio constant. HIGHER AMBIENT TEMPERATURES CAN CAUSE HARDENING PREMATURELY.

APPLICATION

Pour the epoxy onto the floor in a left-to-right pattern in a 'bead', then roll it out evenly. Applying the epoxy onto the cool concrete slows down the curing process and allows longer working time. DO NOT LEAVE IN BUCKET. DO NOT USE A ROLLER PAN. APPLY DIRECTLY TO FLOOR OR PREMATURE HARDENING MAY OCCUR.

Hard to reach areas should be coated first using the small paintbrush. Before mixing the entire contents of the cans together, you may wish to mix equal small quantities of A & B in a coffee-type can and use the supplied brush for corners, edgers, etc. Apply evenly and consistently to the entire area being coated. Be careful to cover all areas and do not leave light streaks or heavy areas. After initially applying the epoxy to a small area you can back roll (roll over) the area being coated if desired to assure a smooth, even finish and an even surface thickness. If back rolling use a heavy duty roller with a ¼" nap. Upon completion the surface should look uniform in color without streaks or heavy accumulations.

Hint- Make sure that color pigments are evenly mixed. Also, when back rolling, always roll and finish in the same direction to avoid heavy areas and to assure even color. Also do not apply epoxy to more than a 3-4 foot area at any one time so that you can easily disperse the chips.

Remember, you can't walk on wet epoxy unless you have purchased our spiked 'epoxy walking shoes'.

Immediately after applying the epoxy to the segment, apply the decorative chips by carefully sprinkling them from a height of approximately three feet and allowing them to randomly 'rain down' onto the wet surface. Do not 'throw' them down. Be careful to not over-apply the amount of chips in any one area. The chips should be applied so that the surface is uniform in the amount and random in color. Leave a wet edge of the epoxy where you can start coating your next area without disturbing the chips you already applied. Continue this process working your way out of the area until the area is completed with a uniform appearance.

Hint-You can practice applying the chips by sprinkling some over a dry area or plastic sheet, and then sweeping up for re-use.

ARMORFLECK-EX

The process for ArmorFleck-EX is similar to above. But for ArmorFleck-EX you apply the initial coat first, let the first coat of epoxy dry, and then apply a second coat and apply the chips in a heavy pattern to achieve desired granite look.

GLAZE COAT APPLICATION

The glaze coat is applied with the supplied roller after the epoxy is dry to a touch usually in 12-24 hrs. Make sure no decorative chips are loose or have not adhered properly. Sweep or vacuum to assure no loose chips. Open can, mix well and apply. For enhanced safety, we recommend the included anti-slip aggregate should be added to the glaze coat to reduce the risk of slipping on finished floors that may be exposed to wet or oily/greasy conditions. Slowly pour the contents of the non skid into the glaze and mix well to thoroughly suspend in the mixture. Continue mixing while applying to assure even application and to avoid settling of the anti-slip.

For ArmorFleck-EX apply a second coat of glaze coat the following day. If using the non skid additive, mix into this final step/coat.

Hint-The aggregate will settle while mixed in the glaze, so periodic stirring is required during the application process to assure uniform application of the anti slip aggregate.

CLEAN UP

ArmorFleck epoxy can be cleaned off hands and other surfaces with warm, soapy water before the material begins to harden. Sticky resin on hands can be removed with mineral spirits or xylene. Fully cured ArmorFleck epoxy can only be removed with industrial paint strippers or through mechanical methods such as grinding or sanding. Any leftover mixed epoxy, paintbrushes and roller covers will harden once the material cures and should be disposed of according to your local regulations.

RETURN TO SERVICE

At 75 def F, ArmorFleck should cure for at least 12 hours before opening the area to foot traffic. 3-5 days before driving and parking a car on it. Extreme temperatures and humidity levels can dramatically impact curing times. If epoxy is not 'rock hard' after 72 hours @ 75 degrees F, then do not drive on it and call for assistance.

MAINTENANCE

ArmorFleck surfaces are easy to maintain through periodic mopping with a non-bleach household detergent solution and rinsing with clear water. Based on usage, re-application of the protective glaze topcoat may be required from time to time to protect the epoxy floor underneath it. If you do apply more glaze topcoat, make sure to also add back in the anti-slip additive to keep the non skid properties of the floor.

FREQUENTLY ASKED QUESTIONS

-My concrete is relatively new, do I still need to clean the floor before applying ArmorFleck? Yes, construction dust, dry wall paste, and paint splatters can affect the bond. Scrape foreign substances from the floor and then clean the floor with the cleaner/degreaser. This is mandatory step. Skipping the prep step can cause failures.

-Do I have to remove old coatings or paint before I apply ArmorFleck? Yes ideally they should be a clean, dry, concrete surface that the epoxy may form a bond to on these surfaces that is stronger than the bond of the old coating on the concrete. If you leave the old coating on, this could cause the old coating to pull away from the concrete, leaving an uncoated area. Leaving old coatings on could cause failure due to entrapment of moisture. If you are unable to remove the old coating, at the minimum sand and etch with the etching solution to make sure weakly adhering paint is removed. Hi-Pressure power washing is good for removing weak coatings.

-I have stains on my concrete caused by tires of my car. Do these areas have to receive special treatment before coating? Yes, tires contain chemicals that leach into the concrete over time. If too much of these substances are trapped in the concrete, then the Armor Chip will not adhere to them and it won't stick. These dark areas should be sanded with a rough sanding pad, scrubbed with a wire brush and the apply cleaner/degreaser and then rinse well thoroughly.

-I may have a clear sealer on my floor. How can I determine if I need extra surface prep? The easiest way to determine this is to sprinkle water on the questionable areas of your floor. If the water beads, you have a foreign substance that must be removed. Sanding or industrial cleansers can be used to remove this problem. Also diluted muriatic acid has been shown to help also. You can etch several times until water doesn't bead up on the floor.

-Can I apply multiple coats of Armor Chip over a period of time? Yes, no special surface prep is required if the additional coats are applied within 3-5 days. If a longer period goes by, then the area should be sanded lightly to create a rougher surface to which the Armor Chip can adhere to.

-Do I really need to add the anti-slip aggregate to the glaze coat? Any coated surface, especially a high quality, smooth surface can be slippery when wet or exposed to oils and grease. **As a safety feature, we highly recommend that the anti-slip aggregate be added to the final coat.**

-I have some cracks in my floor. Should I fill these in before applying the Armor Chip? Filling the cracks may yield a smoother, more beautiful floor. If you have cracks, use our crack fillers (available from us) . Also urethane or epoxy caulks may be used. Another idea is to hide the cracks with the deco chips.

-Can I apply ArmorFleck to wood? Yes you can, it will adhere to wood, although it was formulated for concrete application. Prime wood first with Armorpoxy one part white wood primer.

SAFETY

As with any chemical, avoid contact with skin, avoid inhalation and wear protective clothing, rubber gloves and eye protection. Apply only in well ventilated areas.

FIRST AID

For skin contact, wash thoroughly with soap and warm water. In case of contact with eyes, flush with warm water and immediately contact a physician or go to the emergency room of your local medical center or hospital. If swallowed, do not induce vomiting. Contact a physician and the poison control center.

WARRANTY

ArmorPoxy warranties that ArmorFleck, if properly applied will not delaminate, peel or flake for a period of 10 years from date of installation. This warranty covers adequate replacement product to correct any affected areas. Acts of god, water damage, flooding, seismic movement, cracks in concrete from settling and similar issues are not covered. Misuse and normal wear/tear is not covered.

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