



## PREP AND INSTALLATION INSTRUCTIONS FOR ARMORPOXY, ARMORPOXY II & ARMORULTRA [www.armorpoxy.com](http://www.armorpoxy.com)

### Prep:

Prep is the most important part of the project. Poorly prepared floors will cause failures and void the Armorpoxy warranty.

#### **NEW OR UNPAINTED/UNSEALED CONCRETE:**

Note: Newly poured concrete must 'cure' first. Moisture in the floor may cause coating failure. Moisture can be tested by using our convenient Moisture Test Kit (see our website). New concrete normally has to cure at least 30 days. Test any concrete to be coated by taping a 4' x 4' sheet of clear plastic on the floor with duct tape. If moisture appears the next day, then do not coat. Older concrete with moisture issues can also create problems.

- a. The floor must be properly prepared to accept the coating by one of several methods:
- b. Sweep then power wash the floor to remove any dirt, dust and debris.
- c. Sanding-Sand the floor with a rotary type sander (similar to a buffer). This roughens up the floor.
- d. Muriatic acid-(make sure to wear proper protective gloves, goggles and clothing as muriatic acid can be caustic) Buy muriatic acid locally and also purchase TSP (trisodium phosphate). Armorpoxy carries an excellent liquid concentrated version of TSP. See our website/"Buy Now" link for more info. Dilute the muriatic acid 4 parts water to 1 part muriatic in a large empty 5 gal pail. Apply to floor with a stiff bristle broom or mop. Let stand 20-30 mins or until it stops reacting. Rinse well. Then neutralize the floor with solution of TSP/water mixed according to the directions on the TSP package. Apply the solution, then rinse well, squeegeeing or mopping the water up.
- e. Armorpoxy Non Acid Etch Kit-Same as 'd' above except substitute our Non Acid product in place of the muriatic acid. Dilute the Non Acid Solution according to the label on the bottle.

#### **SEALED CONCRETE**

Often when concrete is poured the contractors either add in or apply a clear sealer. This can create havoc with a floor that is going to be painted or coated. To test to see if your floor has been sealed, dribble a few drops of water on it. If it does not bead up and soaks in, then its not sealed. If it does bead up then you need to etch the floor per above, and then test the droplets again. If it still beads up then etch a second time. Failure to do this could result in significant floor failures.

#### **PAINTED CONCRETE**

Painted concrete ideally should be stripped prior to painting, and then etched per above once stripped. ARMORPOXY CAN ONLY ADHERE TO WHAT IS UNDER IT, SO IF YOU EXISTING COATING IS COMING UP, THEN SO CAN THE ARMORPOXY! Armorpoxy carries an excellent cement floor stripper that dissolves the paint and allows for easy, safe removal. See our website under the 'Strip and Clean' link of the 'Buy Now' portion of our website store.

If you are unable or unwilling to strip your floor, at the minimum it must be lightly sanded and then etched with diluted muriatic acid per above. Let dry once etched and neutralized and then apply the coating.

# APPLICATION

## ONE PART ARMORPOXY

Standard one part Armorpoxy goes on just like regular paint. Open can, stir well, then apply with roller, brush or spray. Spraying may require thinning w/ xylene solvent. Note: Full hard cure of Armorpoxy can be up to a week or more depending on temperature and humidity. Normally dries to touch though in 24 hours. Bare wood should be primed with our Armorpoxy 1-Part wood primer. Two coats can be applied if desired.

Unused Armorpoxy can be stored in its can. Apply lid tightly. If it has thickened, add small amounts of xylene to thin it out and bring back to life.

## ARMORPOXY II

Armorpoxy II is a two part mixed industrial grade epoxy. It is self priming (except on wood, prime first with our standard one part Armorpoxy Wood Primer) on cement and metal surfaces. APII mixes 50/50. Use a mechanical mixer to assure proper and thorough mixing. Once mixed it applies like a standard thick paint and no special skills are required for application.

Do not mix more than you can apply in a 30 minute time frame as once mixed, APII hardens and cannot be stored under any circumstances. Better to mix it up in smaller batches and apply.

Armorpoxy II is normally applied with a medium nap, no lint roller. It can also be brushed and sprayed. Unmixed APII can be stored in its original containers.

Allow to cure preferably overnight, or until can be safely walked on. If you are applying the ArmorUltra Topcoat to your surface, the mix ratio is 2:1 for the topcoat. Topcoat goes on a bit thinner than the epoxy and hence you will get better coverage per gallon. If you are going to use the non skid additive, the UltraWear High Wear additive gets mixed into the topcoat at this point before applying. Use a mechanical mixer hooked up to a drill to assure an even mix and proper suspension of the non skid additive. Make sure to continually stir/mix the topcoat and the UltraWear to assure even suspension. If you delay a bit, the UltraWear can settle to the bottom and you could end up with uneven dispersion of the UltraWear. Apply with roller or brush.

## ARMORULTRA

ArmorUltra properly used is a 3 step system of primer, epoxy and topcoat. Prep floor per prep instructions above. Since the mix ratios are different for some of the products, make sure to completely separate each 'layer' so you do not inadvertently mix the wrong ingredients (this happens more than you would think).

Prime floor w/ the Ultra floor primer. Note..the primer is a 4:1 mix ratio, so you mix 4 parts of A with one part of B. Mix thoroughly with a mechanical mixer and apply with a medium nap roller or brush. Allow to cure at least 8 hours, and preferably overnight.

Mix up the ArmorUltra High build epoxy. The mix ratio is 2:1. Use mechanical mixer. NOTE: Ultra is a fast curing product so only mix up as much as you can apply in about ½ hour. Once mixed, pour the epoxy onto the floor left to right in a 'stream' or 'bead'. Then apply the epoxy by squeegeeing it out onto the surface with a notched squeegee which we carry. The 'V' notches allow the product to flow through the squeegee and allow a high build of the product. Immediately after applying the epoxy, you, or a helper, should 'backroll' the surface with a roller wetted with the epoxy to eliminate any lines from the squeegee notches. Backrolling is a 'shuffleboard' motion and downward pressure should not be applied, just back and forth to assure a smooth, even finish.

Allow to cure preferably overnight, or until can be safely walked on. If you are applying the ArmorUltra Topcoat to your surface, the mix ratio is 2:1 for the Topcoat. Topcoat goes on a bit thinner than the epoxy and hence you will get better coverage per gallon. If you are going to use the non skid additive, the UltraWear High Wear additive gets mixed into the topcoat at this point before applying. Use a mechanical mixer hooked up to a drill to assure an even mix and proper suspension of the non skid additive. Make sure to continually stir/mix the topcoat and the

UltraWear to assure even suspension. If you delay a bit, the UltraWear can settle to the bottom and you could end up with uneven dispersion of the UltraWear. Apply with roller or brush.

### **SAFETY WARNING**

NOTE: ALMOST ALL ARMORPOXY PRODUCTS ARE 'SOLVENT BASED' PRODUCTS AND HENCE HAVE FUMES AND VAPORS. ALWAYS USE PROPER VENTILATION AND RESPIRATION AS PER ALL STATE AND LOCAL REGULATIONS. BREATHING VAPORS CAN CAUSE DIZZINESS, HEADACHES, OR MORE SERIOUS ILLNESSES. IF BREATHING DIFFICULTY OCCURS CONSULT PHYSICIAN OR SEEK EMERGENCY ROOM TREATMENT IMMEDIATELY. READ AND FOLLOW ALL SAFETY WARNINGS ON ALL CANS AND LABELS.