

# Epoxy Floor Installation



(20lbs of flakes – 750 sqft) [.025 time sqft]

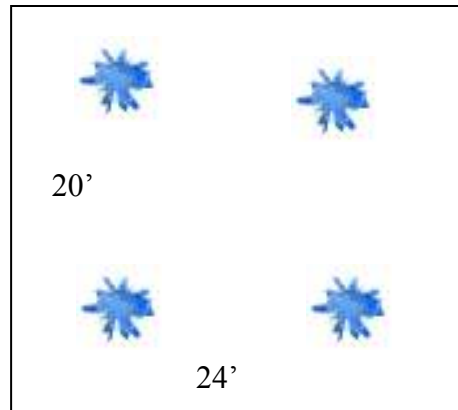


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**(Instructions for a flake system) – Typical for Max Pro Kit.**

Know your project size

How to measure – Length x Width (add each amount of space) (20'x24') = 480 sqft



**AD15 epoxy primer**

**AD707 100% solids epoxy**

**AD322 – solvent based urethane**

**Chip flakes**

Make sure to plan your project before starting. A successful floor includes industry leading materials and proper preparation and planning. Use *spread rates* tab at top of web page to help determine how much material is needed and the corresponding spread rate.

Most common **question** we receive is, “How do you measure or gauge material to make sure epoxy is going down at the correct rate so you are not short or have material left over”?

**Answer:** Break-down the project by amount of material that is purchased following our spread rate table on the *spread rates* tab. Example – take picture above, 2 gallons of AD15 primer. Mix both parts, A and B. Since **AD15** has a longer pot life you can keep material inside the pail longer and pour small amounts on the floor at a time. Keep an eye on the amount inside the bucket while pouring out. Ensure half is out and spread on floor before doing other half. This method is not exact as far as evenness but liquids can be manipulated to cover entire floor as long as you work within some mean of distributing out the material onto the floor. Primer is much easier than the AD707 because it doesn't set up as fast.

To apply **AD707** when you are not familiar with its' fast drying characteristics the safest way is to mix the three gallons and dump it all out onto the floor in 4 even piles before spreading and cutting it. (See illustration). If you feel you poured more than a ¼ in first quadrant then simply transfer some to the lessor side by getting roller saturated and lifting over saw cuts and roll out onto the other quadrants. Do this as needed. If the epoxy starts flowing into the cracks push it away. Remember, you will have spiked shoes on so you will be free to walk wherever needed. There are many ways to apply epoxy on floors and most customers find it is much easier than they thought. Just plan your project and only mix when you are ready to go!!! AD707 dries fast in the bucket so if pouring each quadrant as you go just make sure to move quickly. Either way, leave buck upside down on your final pour to get all the material out of it. Also, keep material separated for each phase of the project so you don't mix the wrong parts. You will be left with a mess if you do, and make sure to mix well and know your pot life.. One cup of Xylene to three mixed gallons of 100% solids epoxies helps, those not completely comfortable, to extend the workability and spread rate. Watch [video](#) before installing. Video does not show the dump all at once method but be aware it is an option. Remember; don't let it flow into the saw cuts.

**Example floor**

**[510 sqft project size]**

AD15 – 2 gallons – 520 sqft divided by 2 gallons = 260 sqft per gallon is the spread rate for this project

AD707 – 3 gallons – 510/3gals= 170 sqft per gal

AD322 – 1.5 gallons – 510/1.5gals=340 sqft per gal – This size of floor is fine to use it all. Never apply AD322 URETHANE HEAVIER THAN 300 SQFT PER GAL. If there is any material left in the bucket do not feel obligated to use it. Apply evenly for an even appearance and texture. When rolling it out there should be a wavy appearance from the chips. If it looks like there are puddles then it is too thick, roll it out further.

Acid etch floor very well or rent a grinder. Make sure to neutralize acid with **baking soda/water solution**. If there are any oil stains use a degreaser on those areas and if the floor is excessively oil stained/soaked AD Polymers offers a primer, AD820, made for these types of floors. It comes in black only. This provides every opportunity for that oil to not lift the build coat. Oil cannot penetrate

After the floor is dry, tape all walls that you don't want epoxy to get on and you may also want to do the front lip of your garage. Duct tape works well for the garage entrance. Picture shows blue tape for illustration purposes.



*Common question –Paint all the way to the edge or stop it at the door?  
We recommend stopping it at the door so it is not exposed to the outside. The sun can fade its appearance and may be noticeable over time. Sun also breaks down epoxy and can cause it to become brittle over time.*

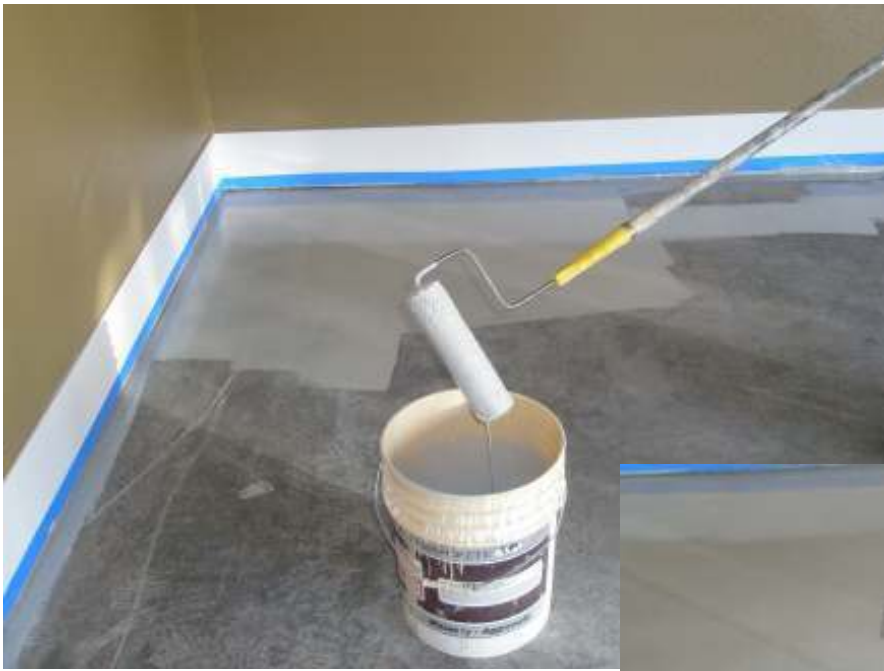
Start cutting-in the AD15 primer which has a one hour pot life out of direct sunlight but no need to go slow. Still best to move briskly,

As far as coating side walls, If you have a lot of it to cover, use a brush, 4" mini roller, and/or 9" roller and go quickly. Kit comes with 18" roller and brush only. 4" mini-roller

or 9" roller cover may be needed depending on your specific needs. It is easy to get caught up in this task and start going slow, but don't!

Have all your tools, paint brushes, and roller ready to go before mixing. Always be ready for the next step. **Planning is key!!!**





Primer can be applied by either dipping or rolling out of the bucket using a 9" roller 3/8" nap, or by pouring it onto the floor and rolling it out from there. 18" rollers will be faster for this step than 9" rollers. Primer is generally applied at a rate of about 200-280 sqft per gal.

AD15 is 1:1 ratio. Mix both parts at once. Make sure to get all material out of each gallon container. Only mix two gallons at a time.

When rolling, be careful as to not allow material to flow into the expansion joints/saw cuts. This is true for all the materials.

If you want, cracks can be filled a head of time with AD818 crack filler. Allow crack filler to dry at least 5 hours before coating. Try not to step on them with your spiked shoes when applying the AD707. Using crack filler creates a seamless look to your floor and will resist cracking.



Picture below is just the primer AD15. Primer coat appearance will change depending on the substrate which often looks dull after wicking into the concrete.



Mix build coat AD707 similar to primer. AD707 is a 2:1 ratio. **Mix no more than three gals at a time of 100% solids epoxy.** Spread rate suggested is up to 160 sqft per gal. 145 sqft per gal is good. AD707 can be applied at any thickness. If using 4.5 gals then mix and spread three gals then do other 1.5 gallons. Apply chips after all material is spread.

**IMPORTANT!!!!!!!!!!!!!!!!!!!!!!  
READ THIS SECTION  
CAREFULLY!!!!!!!!!!!!!!!!!!!!!!**

The only solvent that can be added is xylene (xylol). It helps thin it to make it easier to spread and provides a little longer working life. **THIS MATERIAL WILL SET**

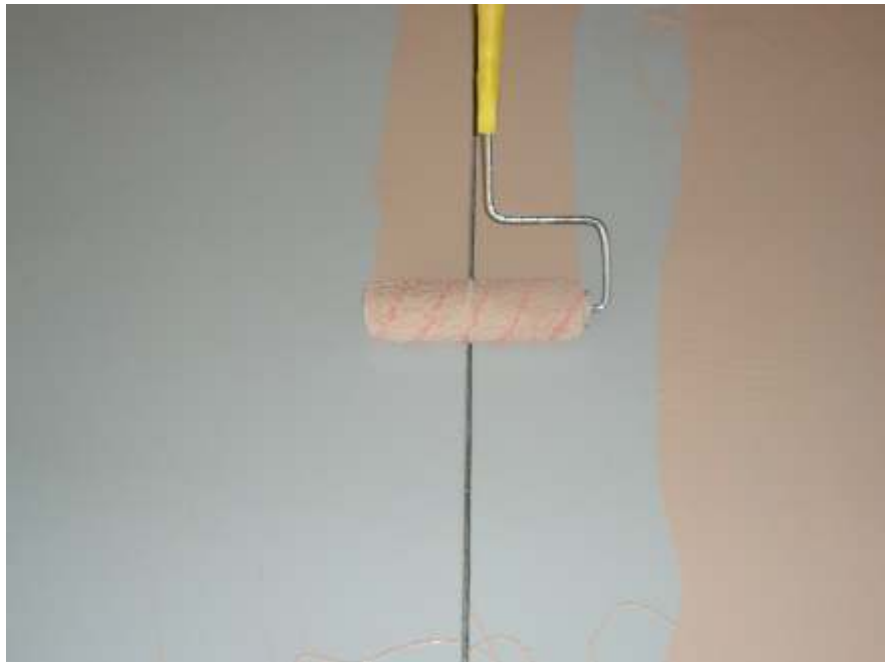
**UP RELETIVELY FAST. 15-20 MINUTES (POT-LIFE)- IN THE BUCKET TO BE SAFE. THE SOONER AD707 IS ON THE FLOOR THE BETTER.** Either dump all material at once per illustration on page one or **DUMP OUT IN** about in about  $\frac{1}{2}$ - $\frac{3}{4}$  GALLON AMOUNTS AND **SPREAD WITH SQUEEGEE** then roll out with 18" roller, and use 9" roller to cut in long sections. Often no brush is needed except around steps, inside corners, and at the base of the garage door. If you have help the second person can roll while you are squeegeeing and cutting in is easier too. Remember work around your saw cuts/expansion joints if you did not use crack filler. This material will not fill them in; you will only waste the material. If you want to fill expansion joints for a smooth look it is recommended to fill with AD818 before applying the primer. Spread rates with AD707 or other 100% solids epoxy greater than 160 sqft per gal add 1 cup xylene per mixed 3 gallons if you wish. You can get that spread rate without xylene just make sure to remember that you have 15-20 minutes to get it out of the bucket and onto the floor.

**Mixing instructions** Mix both parts together for about 2 minutes to ensure complete reaction. Spiked shoes help you to be able to freely walk around and spread the material with ease. Make sure to try shoes on before mixing AD707 and adjust straps to fit. Remember, plan next steps before doing them. Aside from wearing spiked shoes to apply build coat, you will need to wear them when applying the flakes. AD707 can be applied as soon as a couple hours after priming depending on the temperature and thickness applied. Expect 1-6 hours. **NOTE: DO NOT MIX ANY EPOXY UNTIL YOU ARE READY TO USE IT WITHIN THE REQUIRED WORKING POT LIFE. DON'T MIX THEN START CUTTING IN LIKE A SUNDAY MORNING ARTIST, THEN EXPECT TO APPLY THE REST ON THE FLOOR WHEN FINISHED CUTTING IN. WILL NOT LAST THAT LONG!**



**Different color primer used only for illustration purposes.** If coating side walls it is recommended to use same color just make sure to watch where you're coating to make sure you don't miss any spots.

Roll along side cracks. Be careful not to roll material into them. Here a 9" roller is used, which is the same roller used for rolling edges. If using the recommended 18" roller then do this in the same manner. If you happen to have more material on one side of the saw cut or the other simply transfer by saturating roller and rolling out onto the primer where you want the material to be laid next. Three gallons after mixed should take about 20 minutes from the time you are ready to make your first small pour, 'til the time you are rolling out your last pour from the bucket. After last pour tip the bucket upside down on floor to get it all out. Use same bucket if mixing more epoxy.



*Apply chip flakes after all epoxy is on the floor. You have plenty of time to get your floor down then apply chips. 10 lbs on a two car garage will give a medium look. 5 lbs will provide a light broadcast and one lb a random sprinkle.*

*How to apply chips:*

Toss them into the air in an outward fashion away from you. Medium sized handfuls tossed in an upward/outward manner will help them to not fall in clumps. Use smaller handfuls around the wall base to keep a uniform look. Start out applying the chip flakes; toss half of the total amount across the entire floor. This will require the use of spiked shoes. **Careful not to slip!** After half the amount purchased is spread semi-evenly across

the **entire floor** use the other half and do the same. **This time apply more or less where needed blending in the flakes already on the floor.** This method helps gauge the amount of chips needed to make an even look. Remember to toss up in the air and let them fall. This method can be done on most of the floor but around the base and cubbies you may need to use the sprinkle method. Small handfuls until you get comfortable so they are less likely to fall in clumps.





Install urethane AD322\* similar to priming. Either dip and roll out of bucket with 9" 3/8" nap roller or pour out in ribbon type streams and roll out with 18" 3/8" nap roller. 9" roller will work but it is tougher to ensure complete coverage due to the size of the roller. It is easy to miss a few small spots with 9' roller. An 18" roller is the best to roll this material out even. Most people prefer the method below, pour small amounts and start rolling. One coat is fine at 320-360 sqft per gal. Most two car garages may leave a tad left in the bucket of the three gals purchased and that is fine. Don't feel you have to use it all up. Make sure to roll it even. Urethane sets up slower in the bucket than the other two materials but dries faster when on the floor. **Urethane needs to go on thin!** Don't

think heavier is better, it's not! Also, use a cut in brush to hard to reach areas. Spiked shoes not needed but keep them handy incase you are done and notice a spot missed in the back of the garage. Make sure spikes are clean and feel free to walk out over floor to get that spot.

\*CA residents must choose other options to top coat such as AD30 or AD358. AD358 has a non-skid additive.



If using ADHWS (high wear non-skid additive), make sure to mix in the two parts of urethane along with the additive to keep additive suspended in material. When pouring on floor don't be alarmed when you see the white appearance from the ADHWS. The urethane will seem like it is not going to roll-out even but stay on it and keep rolling! May have to put a little muscle into it but just keep rolling back and forth until you can see that it is looking even.

If not using the ADHWS then the urethane will roll extremely easy. Again, make sure to maintain even converge and apply it thin. Apply to an even sounding roller nap along with appearance. Depending on the lighting, and especially on large projects, the person rolling may have a hard time applying due to the shine. A second person spotting helps while he/she is rolling it out.