Basic Epoxy Installation

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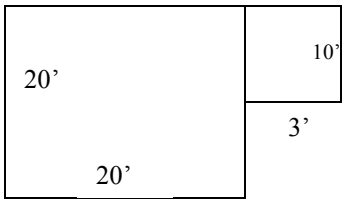
Material Suggestions page

Know your project size

How to measure – Length x Width (add each amount of space) (20'x20') + (10'x3')=400'+30"=***430'***



Medium/Heavy Flake System

(This manual contains basic instruction for this type of system.

Look for easy buy kits that closely match your square footage needs to determine amount of material and spread rate to match you specific floor. If your floor is not exactly listed then choose closest match and adjust spread rate as needed. The spread rate is measured by how many square feet one gallon of material will cover. If your floor size is 430 sqft then purchase the 400 sqft kit. Below is a break down for this project size of 430 sqft.

[430 sqft project size]
AD134 – 2 gallons – 430 sqft divided by 2 gallons = 215 sqft per gallon is the spread rate
AD77 – 3 gallons – 430/3= 143 sqft per gal
AD311 – 1.5 gallons – 430/1.5= 287

Single color – Factory Finish

{Must use a squeegee – 1/8"}!!!!!!

[430 sqft project size]
AD134 – 2 gallons – 430/2 = 215 sqft per gal
AD85 – 3 gallons – 430/3= 143 sqft per gal

AD85 is very thick – The consistency of petroleum jelly. Must use a squeegee to spread then roll it out with an 18" roller. Roll in one direction for the beast finish. This will give a very heavy orange peel texture. Same product and finish used on factory floors that take extreme abuse from fork lift traffic etc. This product is packaged with two gallons of Part A in a 5 gal bucket and one gal just in a gal pail. Pour the one gal in the 5 gal bucket to mix. Suggest adding 2 cups xylene to the mixture for easier mixing. This product can get spread out to over 250 sqft per gal but the build becomes much less. Best to have a couple people on this project because of the short pot life from this material (AD85). Mix all parts together with a drill and large liquid mixer for two minute, scraping the side half way through, to ensure all the material is mixed. Then pour the material onto the floor and squeegee it out. It is easiest to fill the saw cut (expansion joints) with paintable caulk. This way you can squeegee and roll without working around those cuts and preventing material from going into the cracks. Squeegee it evenly and use paint stick to scrape all extra material out of the bucket. Get all this material out of the buck and squeegee out over entire floor and quickly as possible, then roll it out in same direction. This material is very thick but don't be intimidated. Just squeegee it out and keep rolling and working it. Don't over roll. A two car garage should take no more than 30 minutes once the AD85 is mixed.

Basic Single Color System

AD77LVP – 3 gals - 143 sqft per gal
Optional AD311 urethane – 1.5 gals – 287 sqft per gal

Acid etch floor very well. If there are any oil stains use a degreaser on those areas. If the floor is excessively oil stained/soaked ADPolymers offers a primer, AD810, made for these types of floors. It comes in black only.

Tape edge and side walls.

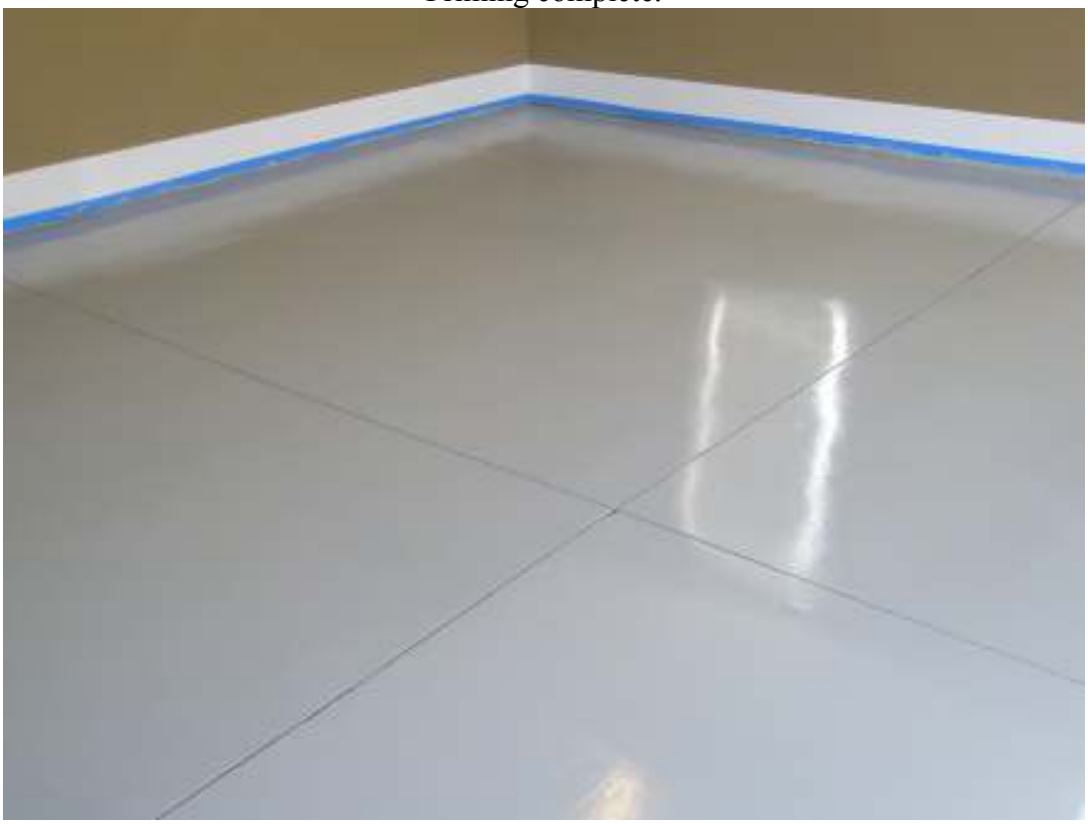
Mix only enough material needed to cut in the edges and sidewalls. If using a primer such as AD134, cut in using this primer. Depending on how much epoxy wicks into the porous blocks, you may want to apply a second coat. Unless plenty of build coat epoxy such as AD77 is purchased, only apply primer to side walls.

Mix AD134 primer, no more than two gals at a time unless on a large scale job. Primer can be applied by either dipping and rolling out of the bucket you mixed it in, and using a 9" roller 3/8" nap, or by pouring it onto the floor and rolling it out with 9" roller or faster method is to use an 18" roller 3/8" nap.

Primer is generally applied at a rate of about 200-250 sqft per gal. It can be applied thinner if needed. Smallest batch size is two gallons. Don't forget about the sidewalls if you are planning on coating them.

Priming the edge is easiest with a 9" roller. Also, be careful applying all materials near cracks and saw cuts so you don't let the material fall into them.

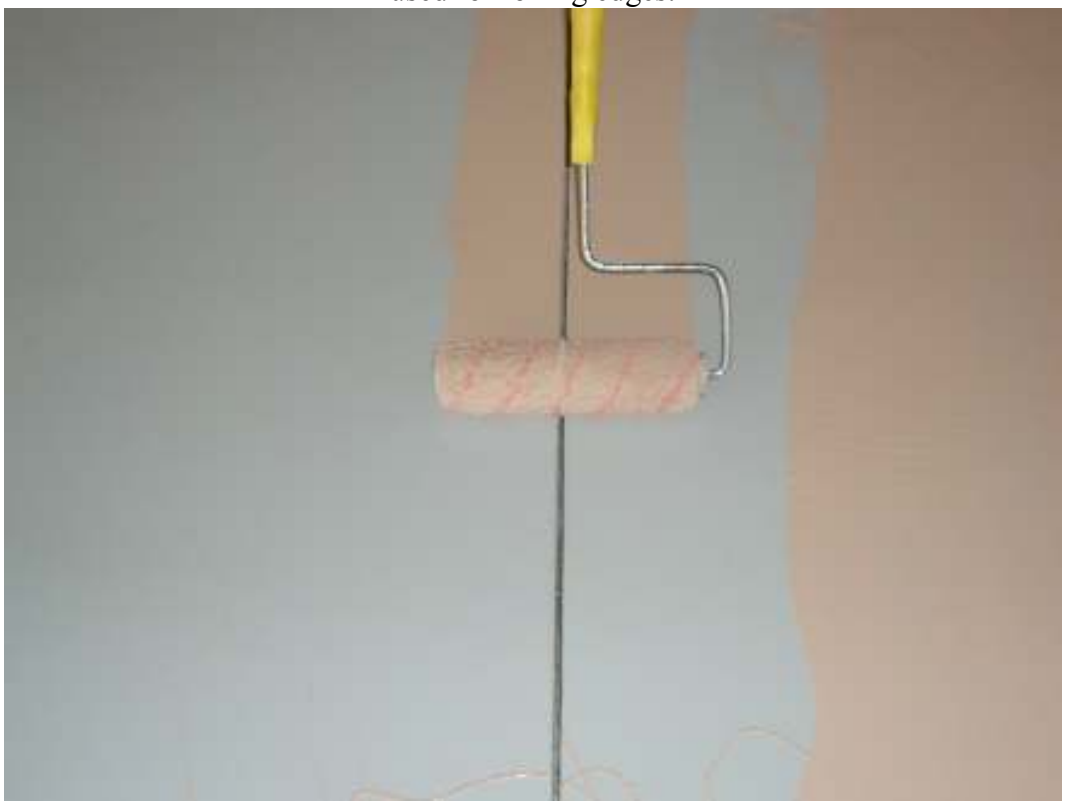
Priming complete.



Mix build coat similar to primer. No more than three gals at a time unless it is a large scale project. 100% solids epoxy is thick and can be hard to apply at higher spread rates and installer experience can make a difference. Spread rates suggested is 130-160 sqft per gal. The only solvent that can be added is xylene (xylol), to help thin to make it easier to spread. Spread rates with AD77 or other 100% solids around 150 sqft per gal suggest one cup xylene per mixed gal. Mix together for 2-3 minutes to ensure complete reaction. Spiked shoes help you to be able to freely walk around and spread the material with ease. Also, use when tossing the flakes.

Pour epoxy AD77 onto floor in manageable amounts and spread with squeegee. 1/8" notch squeegee is the notch size for most projects. Depending on the spread rate will depend on how hard you need to put pressure down on the head of the squeegee. You will also need to use a roller, 18" 3/8" nap roller suggested, to roll out the epoxy at your specific required spread rate. No need to over roll material, just roll out squeegee marks and it will self level from there.

Roll along side cracks. Careful not to roll material into them. Here a 9" roller is used, which is the same roller used for rolling edges.



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 heavy look. 5 lbs will provide a medium broadcast.

How to apply: Best method we have found is to 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.

When initially applying the chip flakes, broadcast (toss) half of the total amount across the entire floor. This will require the use of spiked shoes – old gold spikes work great as well. Careful not to slip! After half the amount purchased is spread semi-even across entire floor use other half and do the same. This time apply more or less where needed. This method helps gage the amount of chips and surface are to cover.

Sprinkle method used when needed to pin point areas with less coverage. Small handfuls suggested!

Two coats of urethane at 350 sqft per gal provide maximum protection. Depending on floor use this may be suggested. Urethane should not be applied less than 300 sqft per gal.
Install urethane AD311* similar to priming. Either dip and roll out of bucket with 9" 3/8" nap roller or pour out in streams and apply with 18" 3/8" nap roller. 9" roller will work too but it is tougher to get complete coverage. It is easy to miss a few small spots. Spikes are helpful in this step as well.

***CA residents must choose other options) E-mail for suggestion**