



ElastoCrete™

Self Leveling Base Mix

Product Information

Description

ElastoCrete™ is a two component polymer modified cement. It comes as a premeasured kit containing one 50 lb bag of a proprietary blended powder mix and one bottle of polymer liquids. It is not recommended to deviate from the prescribed mix ratio. Once mixed properly, ***ElastoCrete™*** is designed to be poured at a thickness of 3/8". It has self leveling properties and can be manipulated with a blower to move, relax and create desired appearance. With the proper surface preparation, it can be placed over many substrates including wood, concrete, linoleum, various tile, carpet etc. Refer to application procedures for specific substrates.

Styles and Colors are Limitless

The natural color of ***ElastoCrete™*** mix is a light beige. Pigments can be added to achieve virtually any color. Unlike typical concrete mixes, any UV stable paint pigments (from a local paint store, like Sherwin Williams) Pigments can be used to integrally color the mix or used for veining. Many decorative aggregates like stone and glass can be added to this mix. With the right techniques, ***ElastoCrete™*** can be made to resemble travertine, marble, granite, solid surface, terrazzo and custom looks as desired. The final surface finish can be smooth, honed polished, leathered and more.

Components

ElastoCrete™ Base Mix Kit: 50 lbs of dry mix in a bag and ~ 5 liters of liquid in a bottle.

DO NOT ADD WATER OR ALTER THE RATIOS OF MATERIAL. It is intended to be used as packaged.

Mixing

- Pour liquid in mixing container.
- Pigments can be added to liquid for integral color mix.
- Add about 80% of the mix from the bag into the mixing container.
- Mix thoroughly until it is even.
- Add the rest of the powdered mix from the bag and mix thoroughly again.
- Let it sit for 1-2 minutes to let the air bubbles come out.
- Put the mixing paddle back in the container and mix for about 5 sec
- The mix is ready to pour
- Colors and veining looks can be achieved using various techniques.





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Applying

- The first thing we recommend is putting down 10oz fiberglass mesh on the substrate you will be pouring on. Roll out with a 2" overlap. This gives added strength and additional flexibility to your finished product. On a wood substrate simply staple the mesh down. On other surfaces roll out the mesh with the 2" overlap. On edges or areas that don't lay flat; do the following. With a paint brush apply Red Guard (available at Home Depot) in those small areas to hold the mesh down to the substrate. Let the Red Guard set up a little, then come back and knife over that area with a drywall taping knife and it will stay flat.
- Depending on the look you want, there are multiple application methods.
- For solid color applications, the material can be poured out and gauged raked out and then leveled using a high volume leaf blower. The process is quite simple.
- For creating a marble vein look, pour some of the mixed product into a bucket. Choose the color of pigment you want for the vein color. Dribble some pigment into the mix in the bucket, Next take a mixing paddle and plunge it up and down in the bucket 2 or 3 times. Now pour it out of the bucket onto your substrate at 3/8 inch stripes like pours.
- Next use your leaf blower. Start lower and gradually lift higher from the surface, moving in circular motions.
- Please call our office and ask for technical support for more details. Classes are also offered to teach custom or more advanced techniques.

Cure Times

- At 70° plus temperatures you should be able to walk on it in about 8- 10 hrs.
- To speed up the cure time, as soon as you can safely walk on it, put a layer of painters plastic on the surface. This will allow you to proceed with the finishing sooner.
- We recommend waiting 24 hrs before you begin grinding or polishing.
- If you are going for a leathered look and want to use leathering brushes, that's easiest done wet. It is best to wait 48 hrs before using water on the surface.
- Higher humidity will ensure a better cure. If you have a low humidity environment, cover it with plastic as soon as you can walk on the surface.

Finishing

- **Leathered look.** This is achieved by using leathering brushes on a polishing machine on a wet surface. Done with water. (We use a six headed Rhino machine) After leathering, just clean and apply the sealer.
- **Polished look.** This is achieved by using 2 step through 4 step process depending on your desired finish.
- **Grouting.** This is done after the polishing to fill the pin holes. Mix up the *ElastoCrete™* grout. Using a stiff squeegee standing up, work back and forth and squeegee the surface tight and clean. Then with a damp sponge wipe off excess grout. For countertop applications, knife it off tightly with a 6-8 inch drywall taping knife to remove excess grout and let it cure. After the grout dries (8hrs), remove with step 3 of our polishing system. After cleaning, it is ready for the sealer.
- **Sealer.** The sealer is applied using a high density foam roller. For best results use the Foam Pro Super Smooth/ Fine Finish foam rollers. **Refer to Mixing Instructions- Or watch the video on the website. www.elastocrete.com**



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Typical Uses

ElastoCrete™ self leveling flooring mix can be used for flooring as well as:

- Poured in place countertops
- Shower panels
- Table tops
- Wainscoting

Limitations

- During installation and cure cycle, substrate and ambient air temperature should be 60°-90° (Lower temperatures will extend cure times.)
- Surface should be clean and dry
- Some surfaces (such as VCT tile, concrete etc) may require primer before applying **ElastoCrete™** flooring mix

Recommended Spread Rate: Coverage is 15 sq.ft. per kit. @ the standard 3/8" on floors. For countertops coverage is 10-12 sq ft per kit depending on edge thickness and profile.

Product Characteristics: Color: Beige
Mix Ratio: 1 bag (50lbs): 1 bottle of stabilizer liquid (16 lbs)

Performance Characteristics and Testing Results:

Flexural Strength:	ASTM 348	2000 PSI
Compressive Strength	ASTM C579	7500 PSI
Bond Strength	ICRI Guideline #03739	420 psi
Abrasion resistance	ASTM C779	0.110
Coefficient of Thermal expansion	ASTM C531	3.886E-06
Impact Resistance	ASTM MIL-D-3134J	No
Cracking		No Detachment
Scaling Resistance	ASTM C672	35 cycles - visual rating = 2 50 cycles - visual rating = 3

Cost Effective

- ***ElastoCrete™** is a truly limitless concrete product. This incredible system installs 3 times faster with 50% less polishing steps when compared with traditional systems.
- Less polishing steps equal less labor and less diamond polishing tooling cost.
- With the ability to pour over almost any surface with **ElastoCrete™** you will have less expense in substrate preparation, labor, and materials.

Advantages and features

- Industry changing elastic properties gives it the ability to expand or contract depending on the movement and/or the deflection of the substrate.
- Anti Bacterial properties
- High compressive strength

- Unlimited life expectancy
- Repairable, bonds to itself, if damage does happen it can be easily repaired.
- Low and almost no VOCs (volatile organic compounds) Making it safe and non-toxic to install in low ventilation environments.