



METHOD STATEMENT

SEAMLESS TERRAZZO

Surface preparation

Prepare the surface according to Surface preparation Guide.

The surface must be

- Clean, free of dust and debris and loose materials and free of oils, grease or other chemical impurities;
- Dry (both on the surface and inside);
- Levelled;
- Cohesive;
- Even;
- Free of cracks (to be pre-treated);

Recommended primers

→ Our Pro Aquapox with Sand/quartz carpet (1-1.5 mm). Alternatively, you can use your high quality primer.
Combimix PP 600 with mortar - textured Surface

Check Edge Isolation - prevent Seamless Terrazzo from going under the edge isolation so to avoid problems in the final appearance of the floor. Check that you have no dead spots, spills or loose particles on the primed floor.

Make sure that you have stable temperature on floor and in room. Preferred between 50° F to 77° F (10°C to 25° C).

Floor heating should be turned off.

Heavy direct sunlight and heavy draft should be prevented.

Finishing around edges, windows, doors and inserts

Clear out client expectations with the possible options and take precautions before installing the floor. Will there be a skirting board? And if not - how is the floor finished next to the walls?

Preparing the work area

Prepare and organize the working area with a good and easy access to aggregates, cements and tools.

Have access to the power supply you need for machines.

Make sure that you cover all areas where you do not want to stain or have risk to splash on.

- Horizontal big concrete mixers for Terrazzo and vertical for EcoFlow.
- Screed bars to take level from the floor and screed material - **Laser Screed**
- Hand Trowels - Spike Shoes - Metallic Spike roller with **10 mm fine spikes**
- Wheelbarrow or dumper to transport material.
- Spray new tools with a hydro repellent for easier cleaning and better performance.





Floor Screeding

Mixing

Premix alone the Liquid B component. Once mixed, add the liquid to the mixer and then the powder.

Make a test mix to adjust the mixing rate - mixing rate will normally be between 20 -22% liquid B (in gal) to A powder component (44 lbs of powder and aggregates with 0.92 gallons of liquid B), but workability should be adjusted to temperature and work conditions. Once mixing rate is established make sure it is always the same.

Manual mixing: mix for minimum 2-3 minutes and until it is homogeneous and without lumps and all pigments are integrated.

When small mixers are used you can use two mixers to secure an even material flow.

Thickness

We recommend to screed the floor in 1/2" thickness, so the finished floor is minimum 0.4 inch after grinding and finishing work.

A good base is essential since the thickness of the screed is taken from the floor base.

For smooth screeding the floor should be screeded 2 mm thicker than biggest aggregate.

To achieve an even finish the floor should be screeded in even thickness.

Use laser screed for best result.



Pumping Style

Depending on the size and percentage of aggregates Seamless Terrazzo can be pumped, but applicators should test that option before using this option.

Pouring the material evenly

The material is poured out on the floor and it is screeded out between bars by hand or laser screeded. If the thickness is taken from bars on the floor the bars should be 2 mm under the actual thickness you want on the floor. When the bars are pulled out a hand trowel should be used to fill the gap. Another person with spike shoes follow right after with a spike roller to even out marks and smoothen the floor. This process takes air out of the floor leveling compound and evens the floor. This should be done with 10 mm spike roller and only superficially not to move the stones around. When aggregates are small a gauge rake can be used.

Curing process

At 70° F the Seamless Terrazzo cures in 24 hours. If temperature is lower curing will take longer. Seamless Terrazzo should be curing at stable temperatures.

Seamless Terrazzo cures without being covered and the material should not be touched during the curing. Touching the material with a trowel after that it has started to settle may cause separation and cracking in the material.

Precaution

It is ideal to finish the floor once you have started to work on it. Before the floor has been fully finished it is sensitive to water and other liquids that can penetrate and make marks in the floor. It needs to breathe also after the curing process if finished, therefore it should only be covered with breathable materials. If it is covered completely with non-breathable materials, marks might occur also after curing.





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Floor Grinding

Metal diamonds

Do the grinding with a constant slow speed always overlapping 50% the previous grinding line. Always check that parts of the machine or big particles are not dragged around and cause scratching in the floors. Continue with crossed grinding till the surface is even and all scratch marks from the previous steps are gone. Crossed grinding is always the best - North - South, East - West.

Repeat the grinding if needed - after the initial grinding the floor should be uniform.

• 30 Grit Metal

We recommend to start rough/deep with a soft/medium metal alloy. Going rough and deep on the first grinding steps makes the floor even and more uniform. **Remember that the first grinding step is the deepest and the one that set the standard for the finished floor. All dead spots should be evened out at this grinding stage.**

- Clean between Grinding Steps - make sure you do not drag loose particles around that scratch the floor.
- **70 grit metal** - the speed on the grinder can be turned up a bit
- **120 grit metal** - the speed on the grinder can be turned up a bit



Comments on Grinding

We recommend to go deep to get the best result. If you over grind steps due to time issues or budget jump, be sure that you always have gone so deep in the grinding that you have taken off the surface film layer formed from the curing of Seamless Terrazzo and Seamless EcoFlow. Bigger machines save time and give a flatter grinding with less effort.

Do not wait too long to start the grinding process. We recommend starting as soon as the floor is completed cured: the longer you wait, the stronger and the harder the flooring will get, the slower the grinding process will become.





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Pore Filling And Floor Finishing

Pore Filling and resin diamonds

Start the process with a 50 grit resin diamond. Then stop and proceed with the application of ProEco Fill. Make a sample of the pore filler the day before - make 3-4 small tests with different concentrations of pigment. Use the mix that gives the right color match when dry. Pore filling will give you a better finished and smooth floor that is easier to clean.

Mix the powder component of ProEco Fill with approximately 30% water until you have a homogeneous paste with a good workability. If necessary, adjust with water and keep the same mixing rate in the application.

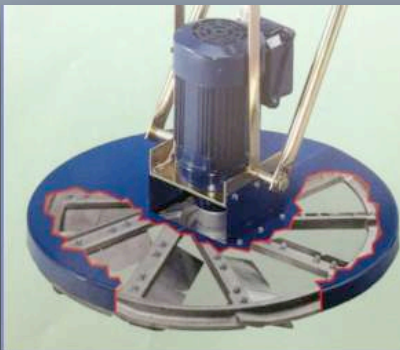
Spread the slurry over the floor with a rubber rake. Spread it evenly over the floor in a thin layer and work it well into the pores manually or with a slow speed swing machine with flexible blades. Go over the same place several times.

ProEco Fill is a very strong binder. Make sure that you scrape off eventual excess of material, they can't stay in the floor and take a lot of extra work to get off. Leave the pore filler to dry - minimum 4 hours, but best till next day.



Continue Grinding with 50 Grit resin

Continue until the floor is cleaned and there is no more pore filler left on the surface. Repeat the pore-filling process if necessary.



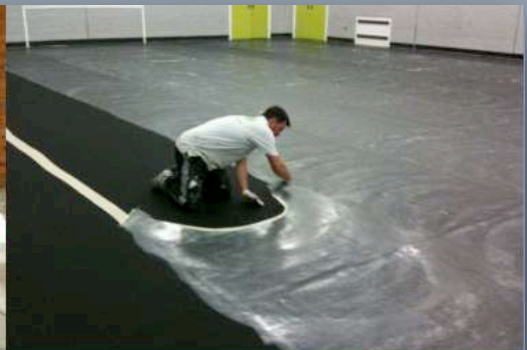
Epoxy Trowel or Swing machine

With flexible blades to push the material into the pores.



Material spread with rubber rake

A rubber rake is used to extend the material and to take off excess.



Hand trowel application

Make sure you get over the same spot several times to get the material into the pores.

Continue the grinding process with 100 Grit Resin Diamonds.

A properly pore-filled Seamless Terrazzo and Seamless EcoFlow is a very strong and dense surface, that is why a good gloss level is achieved earlier using our product base than on traditional concrete.

If a higher gloss or a tight surface is desired, continue **with 200 Grit and 400 Grit, all the way to 800 grit.**

Seamless Terrazzo base can be polished further after 400 grit, but if you do polish further make sure that you use diamonds that do not cause burn marks on the surface. Consult with your machine supplier to get the best equipment for your work.

if water stands too long, it can stain the floor before the floor is sealed. Especially on grey or darker colors wet grinding is risky and we recommend to take necessary precautions.

Clean the floor well with diamond impregnated pads. If the floor has been left at 400 grit use 400 grit of finer.



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Sealing the floor

ProSealer 330 - Water based solution

Clean the floor well with a scrubber dryer with a cleaning pad. Make sure that the scrubber dryer is in good conditions - do not leave water sacking on the floor.
When the floor is fully dry it is ready to receive sealer.

Mix 20% of sealer with 80 % water for the first layer

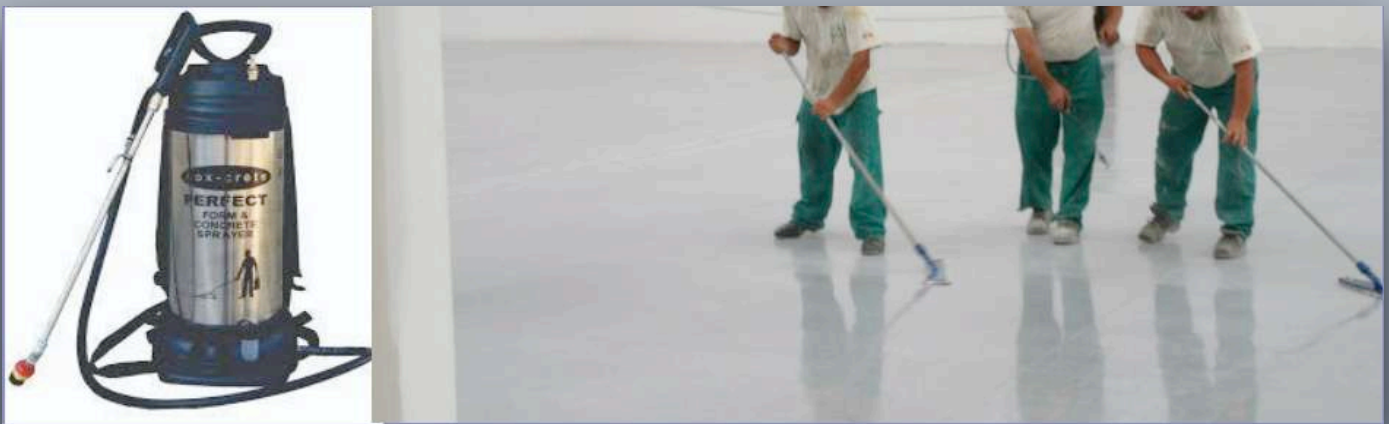
Use a low pressure sprayer to apply the sealer evenly. Pass over immediately with a 4 mm hair roller or micro fiber mop and a second dry roller/mop right after. Let dry for 4 hours approximately and impregnate a second time with 100% pure sealer.

Seamless Terrazzo wet look

ST wet look is an alcohol based sealer that enhances the color.

Apply ST Wet Look as ProSealer 330. Pass a cleaning pad over the floor to remove unevenness or excess. Apply ST Finish Gloss or ST Finish Matt. On dense surfaces dilute with 5 -15 % water.

It can be buffed to a high gloss finish.



Low Pressure Sprayer

Ideal Sprayer for penetrating sealers

Sealer application

Sealers applied with Low Pressure Sprayer and micro fiber mop

Cleaning and maintenance

Clean the floor with **STClean** daily diluted 1:20. For best result use Scrubber Dryer and diamond impregnated pads.

For deep cleaning and stain/spot cleaning

Dilute 1:3 - Wet the floor with the diluted cleaner - leave to react for 10 minutes and clean the floor with scrubber dryer or a brush. For best result use Scrubber Dryer and diamond impregnated pads.

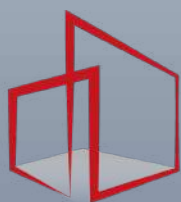
Heavy cleaning - ST Detergent

Dilute 1:5 Apply and work on the surface with sponge/brush or scrubber dryer. When ST detergent has been used it can be necessary to reapply a fine layer of ST Finish Gloss/Satin/Matt.



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inspiring technology

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