



Construction Process Using Polishing Concrete in New and **Existing Concrete**

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Concrete can be Polished at Any Time



Any concrete can be polished at any time. For best results it is best to polish before any walls are up. The earliest a slab can be polished is 5 days after placement.

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It is a good idea to protect the floor from the other trades during the construction process. Often it is not protected with excellent results.

Holes are Polished and Blended

Holes can be patched using a cementious material. When blended with the polishing dust the color can match the floor allowing it to blend. It may still be noticeable.



No Special Mix Design is Required

No special concrete mix is necessary. Any 3000 psi or over will work. Fly ash and other pozzolans can be used.

A good finish results in the best polished concrete. The best cure is a wet cure or a dissipating curing compound.





Floor Flatness is Important



Laser Screed



The flatter the floor the better. A floor flatness (FF) number of 50 is preferred. A laser screed works well. A bump cutter and two passes with a pan on the power trowel can flatten the floor for superior results.



Float pan for power trowel

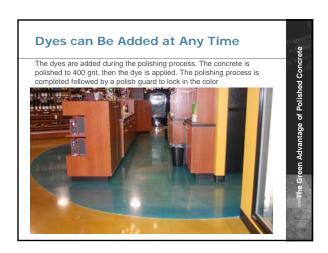
4

















Advantages of Polished Concrete:

Ease of Maintenance

Most floor systems requires scrubbing to maintain a clean and beautiful appearance. Polished concrete surfaces are tightly compacted, reducing stains. They also do not require waxing or stripping to maintain their luster.

Improved Reflectivity and Ambient Lighting

Because polished concrete is highly reflective, less lighting is necessary and energy costs are lowered.

Cost Effective

Polished concrete is a very affordable flooring option and has an extended life which makes it one of the least expensive options available.

Improved Condition for Old Floors

As concrete ages it gets surface stress cracks, delaminating, curled joints, and ugly due to use and abuse. Concrete polishing removes the top layer of the concrete exposing new and virgin concrete. The polishing process will harden and strengthen old concrete increasing the impact and abrasion resistance. Old aggregates can be very beautiful because often they are river rocks.

Advantages of Polished Concrete: Cont.

Elimination of Dusting and Efflorescence

In ordinary unpolished concrete crystalline deposits of salts, which leach from the concrete as soluble calcium hydroxides, will combine with the atmospheric carbon dioxide to form insoluble calcium carbonates which are usually white in color. This coloring can be eliminated with the use of a densifier in the polishing process.

Reduced Tire Wear

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Rough, uneven natural concrete will abrade tires increasing their wear. A smooth polished concrete floor will level the joints and make the surface smooth. This will eliminate the abrasion on tires and reducing the black dust that results from tire

No Downtime / No Interruption of Other Trades

Dry mechanically polished concrete does not interrupt production of manufacturing plants. Since the process is dry it can be walked on during the polishing process. During the new construction process the floor can be polished in the presence of

Extended Life Cycle of Floor

Polished concrete is an affordable flooring option. The extended life cycle can be at least 40 years or longer. Return on investment is usually better than other flooring options.

Advantages of Polished Concrete: cont...

Less Maintenance

Most floor systems, including tile, linoleum and VCT, require extensive maintenance programs to maintain a clean environment and nice appearance.

Polished concrete requires no waxing or stripping to maintain the sheen. Regular cleaning with a neutral pH cleaner makes sure all the soap or detergents are removed.

Beautiful

Polishing takes an ordinary concrete floor and makes it very beautiful. Whether you choose a cream finish, salt & pepper or a heavy exposed aggregate the concrete will appeal to its owners.

Decorative

Polished concrete can be very decorative. On new concrete you can choose between normal aggregate or pea gravel. You can also add color by using integral colors or dyes. Decorative aggregates can also be broadcast and exposed during the grinding process.

Unlike other decorative concrete processes, polished concrete is not trying to make concrete look like something else, but is true to the material. It is only making the concrete look as good as it can.



Sustainability Points of Polished Concrete en Advantage of Polished Concrete

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6











