

Outdoor Grind&Seal

with Color Juice application

After more than a decade of concrete restoration experience with overlays, in 2014 we developed this **mechanical restoration process** for outdoor concrete. The superior performance of this restoration system is proven in every project we performed, from driveways to patios, from lanai to pool decks.

The process

Grinding – This operation is performed with specialized floor machines equipped with metallic diamond buttons, which abrade the surface, removing the top layer. Grinding concrete is often a slow process, and necessary time need to be allowed for proper surface preparation and detailing. The grinding process will expose the stone aggregate contained just below the surface, creating the beautiful look of polished concrete, but without the typical sheen. It will also remove the corroded, stained, and worn out surface, properly preparing it for staining and sealing. This restoration process requires a slab in sound structural conditions, but it allows for structural repair of cracks and dents, where necessary.

Staining – Once properly prepared, the surface can be stained (*optional*) with specialized pigments. We recommend using **Ameripolish Color Juice 3D**, our staining product of choice. This is a two-component water-based silicates stain, which will penetrate and permanently bond to the concrete. Color Juice is available in several tones that can be combined, diluted, and applied in layers, for a completely customized look.



Slip Resistance – Although smooth to touch, our mechanically refinished surfaces maintain an excellent slip resistance. Unlike standard concrete, the microscopic scratch pattern left by the diamond tooling will produce superior slip resistance, even in wet conditions. Over the years we successfully restored many pool decks, proving the extreme performance of this system, even in the toughest conditions.

DelGrosso Design

Diamond Polished Concrete

Sealer – Our projects include application of clear protective sealer, such as Ameripolish X Link WB E. Both Color Juice and X Link sealer are VOC compliant, UV resistant, and will not affect the surface slip resistance. The sealer creates a window of opportunity that allows cleaning of spills, also protects the concrete from corrosion, extending the slab's life. Application of sealer will add a light to moderate sheen, depending on the concrete surface itself. On most slabs this finish will have a natural or satin appearance.



Score Lines –

Beautiful customized designs can be added by scoring the concrete surface by hand with special V-shaped diamond blades. When restoring heavily cracked concrete, we can incorporate and hide the repairs into a score lines design. In this way the necessary flexibility can be maintained, at the same time allowing for proper structural repair. Once the score lines are cleaned, they can be backfilled with colored epoxy, cement, or other specialty products, such as Metzger McGuire RS88 polyurea.

Maintenance – Our Outdoor Grind&Seal finish is beautiful and extremely durable. Periodic re-application of X Link WB sealer is recommended in most situations to maintain the concrete protected and keep it performing at best. We recommend the first reseal after 3 years, then follow up maintenance interventions every 5 years or more, as needed. The reseal operation should be performed more often in high traffic locations or when pressure washing is performed multiple times a year. We recommend maintenance interventions before any excess wear, as it could leave permanent damage to the surface. Slabs subjected to frequent and/or excessive moisture (poor drainage, sprinklers overspray...) may need more frequent application and in some cases some color touch ups.

Wooden Control joints – Old outdoor concrete often has wooden control joints (dividers) embedded in it. Often these wood boards are in bad conditions or rotting, and need to be removed. The voids can be backfilled with high strength concrete or other engineered cement products, then ground flush to the surface during the refinishing process.