



**KODIAK PRO**

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**Kodiak Pro QUANTUM is the newest and most advanced reactive concrete sealer on the market. Reactive sealers, unlike topical sealers (epoxies, urethanes, acrylics, etc.) provide excellent stain and abrasion resistance that will not yellow or delaminate in time. QUANTUM is specially formulated to minimize sheen while imparting the highest performance as demanded for todays high-end concrete.**

## **APPLICATION**

Reactive sealers differ from traditional topical sealers in how they are applied. It is imperative that you follow the application protocol as directed to achieve the optimum results.

### **Step 1 // Curing**

How you cure your concrete affects the durability of the end product as well as the sealer's performance. After casting allow the concrete to gel, then cover with polyester felt, plastic, and 2-3 layers of packing blankets ensuring they completely cover the mold and go to the floor. An optional additional step is to place a heating blanket between the plastic and the packing blankets, set to high, to help maintain the heat overnight. Allow the concrete to cure like this for 24-48 hours before uncovering.

### **Step 2 // Processing**

Once you've *\*carefully\** de-molded the concrete component, rinse it with water and then scrub it with 'Simple Green' cleaner and a green 'Scotchbrite' to remove any wax or mold release residue that may be present. Thoroughly rinse off the Simple Green with water. If you wish to seal the concrete at this point, squeegee off the excess water and dry the concrete with a clean towel. From this point forward, until the sealing is complete, do not place anything on the concrete or

touch with bare hands - always wear latex or nitrile gloves as the oils in your hands can stain the concrete.

If you wish to profile the surface to further minimize the sheen or expose sands, proceed with an acid wash. Mix 8 parts water to 1 part Muriatic Acid. Rinse the concrete with water then immediately start scrubbing the surface with the acid wash and a green Scotchbrite, never allowing the surface to dry. Be aware of the edges, you want to keep them wet at all times - if runs or drips dry they will leave a stain that will be impossible to remove. When the surface is etched to the level that you like, rinse thoroughly with water and then rinse with a mix of 8 parts water to 1 part Ammonia. Let set for 30 seconds then rinse again with water, squeegee the surface, and dry with a clean towel.

### **Step 3 // Post Curing**

After the concrete component has been cleaned and/or etched, allow it to continue to cure until the moisture content is 2.5% or less. The 'Tramex CME4' concrete moisture meter is best and only way to check this (\$530 on their site, <https://www.tramexmeters.com/Tramex-Concrete-Encounter-CME4-Moisture-meter-for-concrete>). Every sealer has an associated equipment cost to it, for reactive sealers this is it, and if it saves you from having to re-cast one piece it is worth the expense. Buy it, use it.

### **Step 4 // Sealing**

When the concrete has reached 2.5% or less moisture content it is time to seal. A quick once over with a Scotchbrite, either by hand or on an orbital sander, can help to remove any streaks that remain from the processing of the concrete. Clean the surface with paper towels and acetone until no residue is visible on the paper towels.

Begin by applying two primer coats. You want the concrete to be between 70° F and 75° F for the primer coats, so if it is cooler than that warm it with a heating blanket, and if it is warmer than 75° move the piece into a cooler area.

*FIRST, SHAKE THE QUANTUM SEALER! It is extremely important that you always shake the sealer before use, whether in the quart container that it comes in or the spray bottle that you use to apply the sealer. In a clean spray bottle mix 50% QUANTUM Sealer with 50% Distilled Water. Rinse a microfiber towel applicator with water and wring out all of the excess water. Set a timer for 5 minutes and*

apply the QUANTUM primer directly to the concrete and work it around using the microfiber applicator to keep the piece wet, you don't want it to dry anywhere. You want the primer to soak into the concrete. After 5 minutes, wring out the applicator and go over the piece quickly to pick up any excess sealer. You want to leave a thin film that will dry evenly. Allow the concrete to rest for 30 minutes and repeat the process.

After the second primer coat has dried for 30 minutes, cover the piece with a heating blanket and 2-3 packing blankets and let it heat up for 4+ hours, or overnight. You want the concrete to be warmer than the environment in which it will live, i.e. if it will be placed in an office that is 70° F, heat the concrete to 90° F.

Now, fill another clean spray bottle with 100% QUANTUM sealer (remember to always shake the QUANTUM sealer before using). Again, rinse a microfiber towel applicator with water and wring out all of the excess water. Apply the 100% QUANTUM sealer directly to the microfiber applicator and then with hard downward pressure, quickly scrub the concrete component in a manner similar to how you clean glass. Thin to win, once finished allow the concrete to rest for 15 minutes, and then repeat 3 more times with 15 minutes between each coat.

That's it, you have sealed your concrete with the most technologically advanced reactive sealer available - QUANTUM.

### **Parting Advice**

It is good practice to let the sealer cure for 3-5 days in your shop before installing or crating the piece. At the time of installation or just prior to crating it is a good idea to clean the concrete with 'Windex with Vinegar' - this helps to accelerate the sealer performance. You should also advise your customer to clean the concrete with 'Windex with Vinegar', to avoid using abrasive cleaners, to not leave anything on the concrete surface for the first 30 days, to immediately wipe up any spills, and to always place felt pads on the bottom of unglazed ceramics (unglazed ceramics will absorb moisture from the concrete and cause discoloration).

If the piece will be installed on a construction site and they want to cover the pieces, it is prudent to first protect the concrete with packing blankets and then cover the blankets with heavy duty kraft paper or 'Ram Board'. Plastic is a bad idea because it is not breathable and can cause the sealer to haze and/or turn white. An ounce of prevention is worth a pound of cure, so anything that helps prevent issues is time well spent.