RADONSEAL CRACK FILLER

TESTIMONIAL

I am totally satisfied with Radon Seal's Epoxy Crack Filler Kit. I appreciate your service and rapid delivery. The included application information provided all necessary information required to develop individual procedures for repairing gouges, spalls, chipped edges, control joints, and cracks (both hairline and wider) in a swimming pool deck with a "PolyPave" finish. Using your application guidelines along with a few tips from other users, it was quite simple to develop effective application techniques. I found your Curing Time, temperature chart very useful for planning the proper amount to mix, depending upon the particular repair. I also determined that Play Sand, which is available in many colors, primarily shades of tan, gray and white, could be mixed with Epoxy Crack Filler in appropriate ratios, for the type of repair, to closely match the color of my Pool Deck finish. The match was very close before painting with the Deck Coating. Coincidently, my Deck Coating is also Xylene (Xylol) based, which facilitated excellent adhesion due to slight melting at the surface of the repair. Small test batches, with a 2:1 ratio of sand to Epoxy Crack Filler Mix, were conducted to achieve desired results. Quality of repairs made with Epoxy Crack Filler is Excellent!

PROCEDURES & RESULTS

My initial repair was an errant saw cut about one (1) inch long and approximately half of the slab thickness. Utilizing the remainder of my final "test batch" with a 2:1 sand to epoxy filler mix ratio, this repair was done in minutes. The sand component was *Premium Play Sand* packaged by *SHORT MOUNTAIN SILICA* (Light Tan in color – purchased at Home Depot). All of my photos depict the final repair results, which includes one layer of my Pool Deck Coating. The next two pictures summarize this first gouge repair.

BEFORE

AFTER

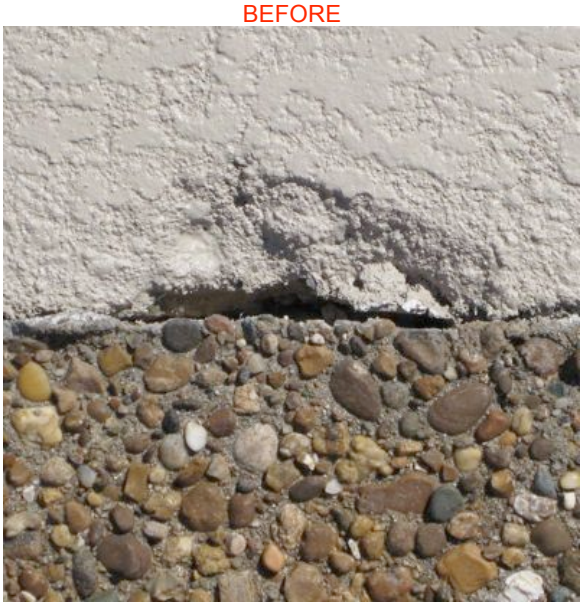
The two small repairs, shown below, were also made using the same 2:1 ratio of sand to epoxy filler mix. These two small areas were sprinkled lightly with sand, after patching, to provide additional texture. Excess sand was removed by brushing after 3 to 4 hours. The “test batch” card in the *AFTER* photo displays cured swatches of the 2:1 Sand/Epoxy Mix. The *Left* Swatch is painted with my Deck Coating; the *Right Swatch* is unpainted.

BEFORE

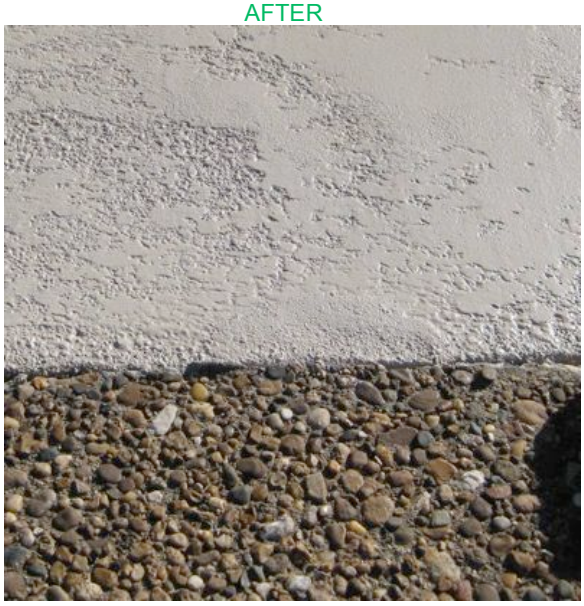
AFTER

The spall shown below was also repaired using the above mixture and application procedures. There was some very slight sagging near the aggregate pad, but since the entire pool deck is greatly textured, it is virtually invisible unless one knows where the repair was made.

BEFORE

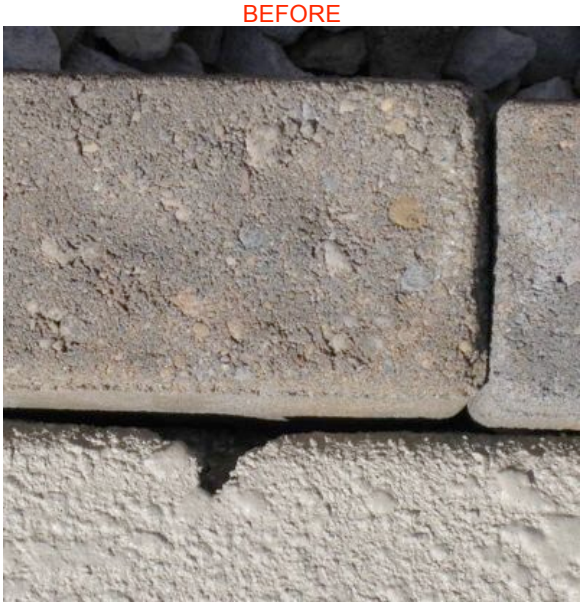


AFTER



The defect below extended almost full depth of the slab and was about two (2) inches deep, horizontally, when the edger was removed. All loose material was chiseled out and a 3:1 sand to epoxy filler mix was packed into this void leaving only what can be seen in the *BEFORE* photo. This remaining area was filled as above, retooling after ½ hour to correct minor sagging. Only the *BEFORE* photograph and the edger position allowed me to find the repaired area for painting. After painting, the final photo depicts the fruit of this effort. There is a slight paint mark, since removed, on the edger just behind the patch. This is amazing!

BEFORE



AFTER

Next, as we move counter-clockwise around the pool, is the area where most of my time and about 40% of the Epoxy Crack Filler Kit was consumed. This hairline to 1/8" wide crack originates at an expansion joint, on the right; and runs to the pool coping behind the ladder. This crack was becoming a great concern because it was at the pool's edge, and also since the pool discharge outlet is to the right of the ladder. Even though this area is covered during the winter, some water obviously enters this crack. Freezing was causing further degradation each winter.

My repair approach was to fill as much of any void, possible, with pure Epoxy Crack Filler (No Sand). Small batches of Crack Filler were mixed using small, plastic, measuring cups. Only enough Crack Filler was mixed, at a time, to halfway fill a squeeze bottle (mustard equivalent). By repeated passes, I was able to fill the entire length of the crack to within ½ inch of the surface. Four mixes and passes were required. To achieve final seal, the addition of a small amount of sand to the epoxy mixture was needed for an area about six (6) inches long, near the expansion joint. The repair was completed with a 1:1 ratio of Sand to Epoxy Crack Filler Mix; this was followed by the light sand, sprinkling, technique, as described above. As seen below, the results seem impressive. I am anxious to see what the winter brings.

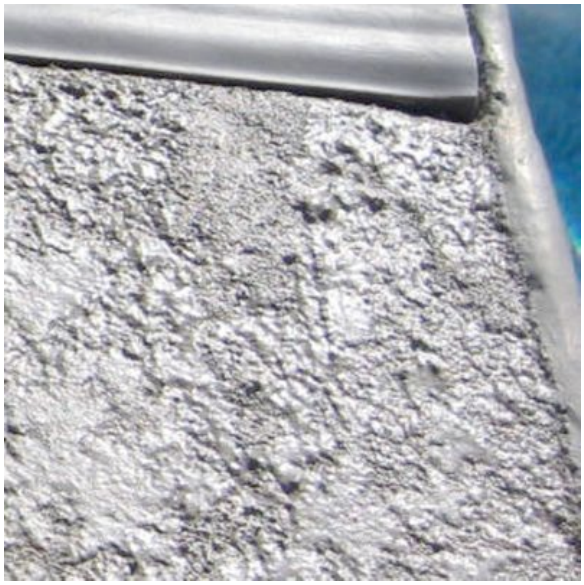
BEFORE

AFTER

This next area of minor spalls and hairline cracks was a miniature version of the conditions and procedures that are prescribed above. The depth of the cracks was much less severe.

BEFORE

AFTER



The following two chipped out areas next to the vinyl “SlabGasket” 2”x4” expansion joint were easily patched using the 2:1 ratio of Sand to Epoxy Crack Filler Mix. In hindsight, it may have been slightly better to increase the Sand amount for a 2-1/2 or 3 parts to 1 ratio.

BEFORE

AFTER

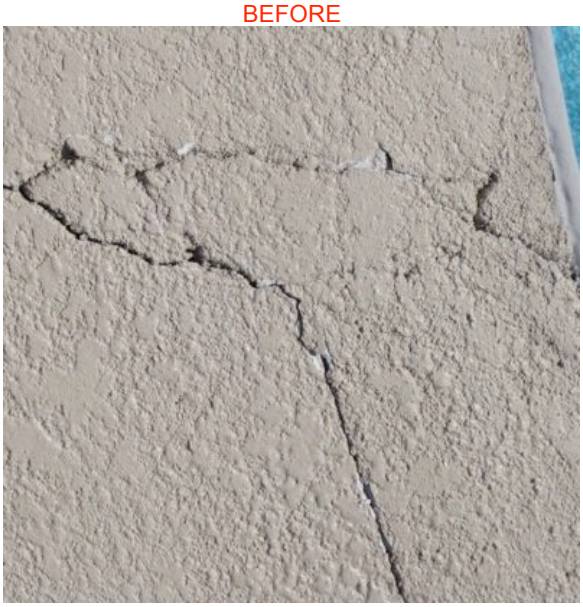
This small breakout was repaired with 3:1 ratio of Sand to Epoxy Crack Filler Mix. It was slightly harder to tool, but the patch held its shape afterwards.

BEFORE

AFTER

The small area of hairline cracks below is a small portion, near the pool, of a hairline crack that runs for 8 feet from the left side of the first two pictures. This repair was very tedious. Only very small amounts of Crack Filler (No Sand) were mixed at a time; about ½ cup liquid was all that could be easily drizzled into the narrow crack using a 2" wide plastic putty knife. Repeated passes over 1 or 2 foot sections, at a time, were used to fill within ¼" of the surface. This prevented partial curing in a section prior to completion. Roughly One-Half part of sand to Epoxy Mix was then used to fill to the surface. Very light sand was then applied; excess sand was brushed away and removed after 30 or 45 minutes.

BEFORE



AFTER

This last photo presents the entire length of the crack described above. It begins near the Pool and extends to the upper left corner of the picture. The photographs above are also seen below as the extreme right, lower half, portion of the frame.

AFTER (Expanded View of Above)