



## Three methods for repairing cracked steps in vinyl-lined inground swimming pools

### Method 1 Dry Repair of Cracks

Chase the crack with a grinder, Dremel tool or saw blade to give the crack some depth and allow better adhesion for AquaBond SR-3000 Structural Repair Compound. Smooth and clean the prepared crack with sandpaper, then wipe with isopropyl alcohol or acetone to remove any residue and then apply the SR-3000 adhesive. Finish-sand the repair as needed or use Aquabond's patent pending polyethylene film application process to produce an amazingly smooth finish.

#### Material list:

1. DMK-3000 Structural repair adhesive kit.
2. Optional: PEF-01 or PEF-10 Polyethylene Film Adhesive Applicator System

### Method 2 Sand-slurry and Foam Injection for Reinforcing Under-step Support

This option requires a visual field assessment for erosion of under-step support. You will need to replace as much sand as possible then fill the rest of the void with AquaBond's PF-3f7 High Density Polyurethane Injection Foam.

You may have to hole-saw or drill each step to visually make a determination. (Remember to keep the pieces you hole-sawed out for reattachment later in this repair). If there is sand erosion, then you can add sand slurry (water soaked sand) into those holes, leaving a 2-3 inch gap for room to inject the foam. Inject foam slowly through hole into wet sand slurry at multiple angles to create a good sand-and-foam foundation under the step. The foam can take 20-25 minutes to fully expand so be patient. It expands as much as 15-25 times its original volume so inject slowly and pay attention to how things are going.

Once the foam is injected and cured, you can cut some of the foam out, 1/4 " deep, and dispense AquaBond SR-3000 Structural Repair Compound there and replace the cut-out pieces. Fill any gaps or edges to level the repaired area. Sand or grind the SR-3000 level if necessary, to remove any rough edges.

#### Material list:

1. DMK-3000 Structural repair adhesive kit
2. DMK-377 Foam Injection Kit
3. Optional: You may need additional PF-37 foam cartridges for larger voids
4. Optional: Additional SR-3000 Structural repair adhesive 50 ml cartridges

### Method 3 Dry or Underwater Step Tread Replacement

First, repair any cracks as in Method 1 above.

Next, using AquaBond's VSRK-60 Vinyl Step Repair Kit, cut the new step tread to size. Trim front edge of new tread to finish 1/2" to 3/4" in from rounded front edge of the original step. Round-off the four corners and soften sharp edges. **Fill all uneven surfaces in the old step tread with adhesive and apply adhesive liberally to entire backside of the new tread** before setting it in place.

**When doing a dry repair**, use AquaBond SRX-3000-400 Structural Repair Compound to adhere the new tread in place over the old one. Caulk thoroughly around the perimeter of the new tread using the SRX-3000-400.

**If doing the repair underwater**, use AquaBond UW-5000-400 Underwater Repair Compound to adhere the new tread in place. Caulk thoroughly around the perimeter of the new tread using the UW-5000-400.

#### Material list:

1. **For above water** or dry step tread replacement, use our VSRK-60 Vinyl Step Repair Kit (Includes our DM-400 Dispensing Gun)
  - 1a. Optional: Extra VSRT-60 Step Repair Treads.
  - 1b. Optional: You may need additional SRX-3000-400 adhesive cartridges for larger repairs or multiple steps
2. **For underwater** or wet step tread replacement, use our DMK-5000-400 Underwater Repair Kit. (Includes our DM-400 Dispensing Gun)
  - 2a. Optional: You may need additional UW-5000-400 adhesive cartridges for larger repairs or multiple steps
  - 2b. Optional: Extra VSRT-60 Step Repair Treads