



POOL AND DECK COATINGS

Kelley Technical Coatings



Louisville, Kentucky 40201-3726
[502] 636-2561 [800] 458-2842
Fax [502] 635-5170 www.kelleytech.com

ALL OLYMPIC PRODUCTS ARE VOC COMPLIANT

Bulletin No. 135

Repairing Cracks, Pits, Spalls, Breaks and Rough Areas in Concrete Pool Surfaces

GENERAL PATCHING

POXOFILL epoxy putty is highly recommended for permanent patching and repairing of concrete. It will permanently retain positive adhesion on clean surfaces. For replacing coping, repairing broken coping, and for replacing tile, we recommend our No. 962 POXOFILL epoxy bonding adhesive. Consult Bulletin No. 134 for information on No. 962 POXOFILL.

Hairline cracks are eliminated when ZERON (Heavy Duty Epoxy Coating) is used as a finish coat over either GUNZITE Primer or POXOPRIME II. By applying the ZERON at a 10 to 12 mil thickness, it easily covers hairline cracks.

Our No. 960 CONCRETE PATCH is more economical to use than most of the other more sophisticated patching materials. For general patching material where speed of cure is essential, this product should produce satisfactory results. It may be used for patching both above water and surfaces which are to be underwater. No. 960 CONCRETE PATCH is an easy to use two-component waterproof patching cement. One container contains the dry powder cement formulas, the other component contains a special silicone latex mixing liquid. When mixed, this cement has strong bonding power. No need to widen cracks before patching. It is self-curing and requires no curing agent or wetting of the surface either before or after application. No. 960 CONCRETE PATCH is not as strong nor is it as permanent as No. 962 POXOFILL; however, No. 960 is more economical.

Deep cracks and breaks should be filled in two more layers not over 1" thick. Allow two hours setting time between layers. Material begins to set up immediately after its installation. The thinner the concrete patch, the faster the set. Use material within two hours after mixing or the remaining concrete patch will set up and be beyond use. NOTE: Should silicone-latex mixing liquid be allowed to freeze, allow it to thaw at room temperature for 24 hours; then, it may be used.

PERMANENT PATCHING WITH POXOFILL

No. 962 POXOFILL is a two-part epoxy aggregate putty. It may be molded to any shape. It can be installed in cracks, pits, small potholes and spalled or eroded spots by using a

putty knife. It is the strongest and most permanent patching putty available. It may be used underwater. When using underwater, the putty should be hand formed so that it is approximately 10% larger than the crack or spot to be filled. It should then be held by hand or by any other method so it can "set up" for 10 minutes; at that time, your hand (or other support) can be removed. Excess putty can then be removed with a putty knife or steel trowel. POXOFILL is purely and simply a material which handles like regular putty. However, POXOFILL differs from putty, concrete patch, and caulking materials in many ways.

1. It has much greater adhesion.
2. It is far more permanent.
3. It will cure underwater.
4. It may be applied underwater.
5. It develops far more tensile strength than most other types of patching materials. It can be feathered with a spackling knife without ever losing adhesion.
6. It secures perfect adhesion without a primer. It is excellent for "smoothing out" rough or spalled areas.
7. Certain types of patching may be done where a thin layer of POXOFILL may be applied when mixed with sand or other fine aggregate without any possibility of future loss of adhesion.
8. It has far greater resistance to acid, pool chemicals, moisture, and other conditions in swimming pools.
9. It may be coated after an overnight "cure".
10. POXOFILL may be used as a sealer where rust is coming through the pool wall. Chisel or drill out the rust spots and fill up with POXOFILL.

POXOFILL is a two-component material. The base should be well stirred and mixed with the catalyst. POXOFILL then develops a putty-like consistency. It can be applied with a putty knife, molded by hand, or spackled with a spackling tool or trowel, when holes, depressions, ruts, cracks in concrete pool surfaces are to be repaired.

Consult Bulletin No. 134 for complete POXOFILL information.

NOTE: When hand application is used, either wear gloves or remove POXOFILL from hands with No. 1109 SOLVENT and wash with soap and water immediately after use, for the catalyst in POXOFILL is toxic and could develop dermatitis if it is not removed within a short time.

Also, use No. 1109 for cleaning application equipment. POXOFILL may be used for installing equipment on concrete decks, filling spalled spots, "smoothing out" rough surfaces, repairing, and replacing tile or coping, repairing cracks, filling pot holes, and depressions, sealing rust bleed through, and underwater repair.

FILLING CRACKS WITH SOLID PATCHING MATERIALS

All dirt and residue should be removed from cracks. This can usually be done with a high pressure hose. Cracks large enough to take a 1/2" (long handled) wire brush should be wire brushed. Smaller cracks should be out or sawed large enough to receive patching material. Use No. 962 POXOFILL for permanent repairs. Use a putty knife to install POXOFILL in cracks. No. 960 PATCHING CEMENT can also be used to fill the cracks but will not always produce the type of results you will receive with more permanent POXOFILL.

PHYSICAL DATA

SET TO TOUCH:

No. 950 PERMASEAL: 2 hours
 No. 960 Patching Compound: 3 hours
 No. 962 POXOFILL: 2 hours @ 77°F

LENGTH OF TIME FOR WORKABILITY:

No. 950 PERMASEAL: Indefinite
 No. 960 Patching Compound: 2 hours
 No. 962 POXOFILL: 30 min. @ 77°F

LENGTH OF TIME FOR HARD CURE:

No. 950 PERMASEAL: 48 hours
 No. 960 Patching Compound: 8 hours
 No. 962 POXOFILL: Overnight

TENSILE STRENGTH:

after 7 days, psi
 No. 950 PERMASEAL: 5,000
 No. 960 Patching Compound: 7,500
 No. 962 POXOFILL: 10,000

WARNING!

If you scrape or remove old paint, you may release lead dust.

LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at **1-800-424-LEAD** or log on to **www.epa.gov/lead**

Information herein given has been accumulated through many years of experience and verified by our technical personnel and is based upon tests believed to be reliable, but RESULTS ARE NOT GUARANTEED.

NOTE: KELLEY TECHNICAL COATINGS, INC. makes no implied warranty of merchantability, no implied warranty of fitness for a particular purpose and no other warranty, either express or implied, concerning its products.

KELLEY TECHNICAL COATINGS, INC.
 Louisville, KY 40210