



**POOL AND DECK COATINGS**

**TECHNICAL BULLETIN**

**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. 131**

# **THERMOLASTIC Flexible Rubber Joint Filler for Swimming Pool Construction and Maintenance**

THERMOLASTIC Rubber (polysulfide base) Joint Filler will pay for its installation many times due to the water saved and the long life expectancy. Leaky expansion and construction joints result in greatly increased water consumption. THERMOLASTIC, after the addition of the catalyst, cures to a resilient solid rubber material within 48 hours after mixing. It will stretch to double its original dimensions without failing and will return to its original dimensions when the stress is relieved. Being Approximately 100% solids, it will completely fill an opening without shrinking, cracking, or losing adhesion, provided it is properly installed by an experienced person. It has remarkable adhesion on all primed concrete surfaces. It offers a permanent attachment as these surfaces expand and contract. Its tensile strength is over 100 psi. It also has excellent weathering qualities remaining flexible and in its original condition for 20 years or more in sunlight and water.

Unlike bituminous joint fillers, which soften when the temperatures are high and may be tracked by foot traffic, THERMOLASTIC does not soften when hot. This is very important feature when filling joints in pool decks. Also, THERMOLASTIC does not become dry and brittle when temperatures reach arctic cold conditions.

After 48 hours THERMOLASTIC may be coated with our epoxy coatings, using GUNZITE PRIMER. THERMOLASTIC is not compatible with our rubber-base coatings PARALON 2 and OPTILON, or our acrylic coatings PATIO TONES and HYDROLON. DO NOT apply these coatings over THERMOLASTIC. When using these coatings, trim up to but not over THERMOLASTIC.

### **DIRECTIONS**

We recommend that you secure the services of someone experienced in installing 2-component polysulfide rubber joint filler. A much better job will result. This product can prove difficult to install.

Mix contents of small can (accelerator) with the contents of base material (large can). Best method of mixing is with electric drill press. For hand mixing, transfer the base compound to a flat aluminum or glass sheet or to a container such as an aluminum flat cake pan. Add all of the accelerator. With a putty knife or spatula fold and stir the

two materials together until all traces of the accelerator disappear and no unmixed material remains. These materials remain liquid until mixed together. After mixing, the compound slowly thickens until it becomes a solid rubber.

**CAUTION!** All of the accelerator MUST BE THOROUGHLY AND UNIFORMLY MIXED into the base. If it is not, the compound will remain soft and tacky indefinitely. Properly mixed THERMOLASTIC is tack free in two days and fully cured in one week at 75°F. It is advisable to install THERMOLASTIC when the weather isn't extremely hot. THERMOLASTIC should be installed by someone with experience.

THERMOLASTIC should be applied with a caulking gun in order to flow the material neatly and cleanly. It isn't as easy to apply with a putty knife but an experienced applicator could achieve good results. Use a closed type caulking gun. It will "suck" up the THERMOLASTIC from a gallon or 5-gallon can. Always dip the caulking gun in No. 1109 SOLVENT prior to filling the gun and clean it out with No. 1109 each time you finish using the gun. Two grades are available: TYPE V which will not sag in vertical joints and TYPE H for pouring in horizontal joints. When it is cool or when TYPE H does not pour readily, it can be thinned with No. 1109 SOLVENT.

**CAUTION!** Unless THERMOLASTIC is installed according to our directions, the results received will not be satisfactory. After THERMOLASTIC is gunned in the joints, the surface can be "tooled" with a putty knife or other tool of your choice. A slightly inverted "V" is the best pattern. THERMOLASTIC (after mixing) can only be worked from one to two hours, depending upon the temperature. THERMOLASTIC may be applied on glass, aluminum, ceramic, wood, metal, concrete, stone, etc. All surfaces must be clean, dry free from oil and grease at the time of application. Old joint filler be COMPLETELY routed out of the joints. This can be done by sandblasting or with an electric jack hammer equipped with a chisel approximately the size of the joints. After the old filler is removed, the joints should be well brushed out with wire brushes until all traces of old joint filler are removed. Remaining black joint filler should be removed with lacquer thinner. Pour it on a rag and soak the areas where it remains. Use lacquer thinner soaked steel wool for stubborn spots. Fill all joints to a depth equal to the width of the joint with No. 934 FOAMLITE. This can be quickly laid by tamping in with a blunt tool.

**CAUTION!** Heat accelerates the cure and after mixing until you are ready to install it in the joints. THERMOLASTIC stored in a hot place and mixed when the temperature is 90°F or above can set up in the gun before you have a chance to use it. After the above preparation, your pool is now ready for THERMOLASTIC. Clean all equipment with No. 1109 SOLVENT before the material cures or it will be very difficult to remove.

**CAUTION!** The accelerator is toxic if taken internally. Avoid contact and wash thoroughly before handling food. When in contact with skin, clean contact area with rubbing alcohol and wash with soap and water.

## **PHYSICAL DATA**

After 7 days, cure at 75°F

**SOLIDS:** 96% by weight

**COLOR:** Off-White

**WEIGHT PER GALLON:** 10.6 lbs.

**VISCOSITY:** Medium - heavy paste

**WORK LIFE:** 1 hour @ 70°F (after mixing with accelerator)

**MILEAGE:** One gallon fills 231 cubic inches  
(25 lineal feet at 3/4" x 1")

**CURING TIME:** Tack free in 24 hours @ 75°F.  
Full cure in 5 days

**SERVICE TEMPERATURE RANGE:** -65°F to +300°F

**POUR TEMPERATURE RANGE:** 50°F to 95°F

**PACKAGE STABILITY:** 3 years or over

**ELONGATION:** 300% to 600%

THERMOLASTIC is resistant to deterioration by oxygen, oils, solvents, pool chemicals, temperature extremes, salt water, vibration, expansion, or contraction.

## **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](http://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