



Technical Bulletins

Bulletin 130

PERMASEAL Permanent Nitrile Rubber Joint Filler

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PERMASEAL is a fantastic product in many ways. It is a nitrile rubber one-component joint filler and sealer. PERMASEAL is similar in curing time, working properties, and permanent flexibility to the silicone rubber bathtub sealants. It comes in cartridges which fit a skeleton type caulking gun. It is also available in quart and one gallon cans. It converts to nitrile rubber in 18 to 24 hours. It is applied to clean pool and deck joints without a primer.

DIRECTIONS FOR USE AND INSTALLATION OF PERMASEAL

This product is the easiest of all permanent rubber joint fillers to install, as it may be installed by a novice. Use a skeleton type caulking gun with PERMASEAL caulking cartridges. Always store caulking cartridges in a cool place. Due to the unlimited "pot life" of PERMASEAL you are never forced to hurry the job. With two-component joint fillers, you are always confronted with a short "pot life." These materials will "set up" very quickly.

PERMASEAL has excellent adhesion to aluminum, vinyl, glass, wood, concrete and most clean materials. Temperature range - 30 F to 175 F. In addition to swimming pool expansion joints, PERMASEAL can be used as a bedding compound - flashing seal - window seal - bathtub caulk.

Old joint filler should be removed prior to installing PERMASEAL. The old material can be removed with any metal tool that can dig out the old filler. On larger jobs, an air driven chisel will remove it quickly. All old joint filler and other residue must be cleaned from the sidewalls of the joints. This can be done with a long handled narrow wire brush or with a power driven circular wire brush. Also, lacquer thinner can be used to remove remaining joint filler. Pour it into the joints or soak a rag. Use solvent soaked steel wool for stubborn spots. **CAUTION!** Always wear rubber gloves when using lacquer thinner.

After the surface of the sidewalls of the joints are wire brushed clean, they should be scrubbed out with a tri-sodium solution and flushed out with clean water. After drying out, the foam rubber "FOAMLITE" base filler should be installed. NOTE! If PERMASEAL is not properly installed or if the joints are not prepared according to our recommendations, the results will not be satisfactory.

Our #934 FOAMLITE, round foam rubber base for joint filler, is a soft extruded polyethylene foam which is highly flexible and compressible. It is compatible with all cold applied sealants.



INSTALLATION PROCEDURE

FOAMLITE should be compressed into the joint to approximately 75% of its original diameter. Use a blunt rounded tool or a plain faced narrow roller for compressing into the joint. Avoid puncturing the surface skin of the FOAMLITE. Avoid excessive stretching of the rod during installation.

A good rule of the thumb is to install the rod so as to leave a square opening for the sealant. A 3/4" width joint should leave a 3/4" space (horizontal) for sealant installation. Do not use FOAMLITE if hot sealants are to be used in the joints.

After the FOAMLITE is installed, the joints are ready for the PERMASEAL. These cartridges hold 1/10 gallon. By using a skeleton type caulking gun, the PERMASEAL is "gunned" into the joint. The PERMASEAL should fill the joint so as to produce a bead above the joint (see illustration) to take care of the shrinkage due to evaporation of solvents.

PERMASEAL PHYSICAL DATA

Solvent: #1108

Flash point: 25 F

Cleaning application equipment: #1108 Solvent

For Thinning PERMASEAL: #1108 Solvent

Color: Off-White

Solids: 51%

Weight per gallon: 9.01 lbs. @ 70 F

Viscosity: Heavy mastic

Four weeks immersion tests: (after 2 weeks cure)

- Tap water - not affected
- Distilled water - not affected
- 35% Sulfuric or straight muriatic acid - not affected
- 10% Sale solution - no effect
- 16% Sodium hyochlorite - no change
- 5% Tri-sodium - slight surface tackiness
- 10% Nitric acid - some blistering
- Gasoline, oil, grease, soap, detergents - no effect

PERMASEAL has excellent dielectric qualities.

Pot Life: Indefinitely (in tube)

Shelf Life: 6 months or longer (store in cool place)

Painting Time: Overnight in dry warm weather

Lineal Feet Per Cartridge: 2ft. 3/4" x 3/4"

FOAMLITE STANDARD SIZES: 3/8" - 1/2" - 5/8" - 3/4" - 1"

If you are doubtful about the correct size (it should be compressed) ask for sample which we will mail at no cost.

FOAMLITE PHYSICAL DATA

<u>When Joint Size is:</u>	<u>FOAMLITE Size is:</u>
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1/4"	3/8"
3/8"	1/2"
1/2"	5/8"
5/8"	3/4"
3/4"	1"

Composition: Expanded cellulac polyethylene

Color: Gray

Odor: None

Compression deflection: 7 psi @ 25%

Tensile strength: 20 - 30 psi

Chemical resistance: Excellent

Temperature resistance: -40 F to +160 F

Package stability: Permanent when stored in dry area

Packed: May be secured in any length

3/8" 4,200 ft. to the carton
1/2" 2,500 ft. to the carton
5/8" 6,300 ft. to the carton
3/4" 1,250 ft. to the carton
1" 650 ft. to the carton

CAUTION!

Do not take internally. Close container after each use. Keep away from heat and open flame. Avoid prolonged contact with skin and breathing of vapor. Areas of body or clothing on contact with uncured resin and/or catalyst should be thoroughly cleaned with solvent and washed with soap and water immediately. Use only where there is adequate ventilation. KEEP OUT OF THE REACH OF CHILDREN.

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.

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