



# GelFoam™ Injection Grout | SOLVENT FREE FLEXIBLE POLYURETHANE INJECTION FOAM

Manufactured by Polygem | 5600 Lower Macungie Rd. | Macungie, PA 18062 | 630-231-5600 | Made in USA

**POLYGEM**  
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## PRODUCT DESCRIPTION

**GelFoam™ Injection Grout** is an innovative and simple to use hydrophilic polyurethane resin system designed to provide the ultimate solution for crack repair and void grouting applications. In contact with water, GelFoam will expand up to 20 times its original volume creating a permanent, flexible and water tight seal. GelFoam eliminates the need for costly equipment and messy cleanups.

**GelFoam™** is a super low viscosity, single component resin that is ideal for sealing fine cracks.

## ADVANTAGES

- **Creates a Flexible Foam Seal**
- **Solvent Free**
- **Toluene Diisocyanate (TDI) Free**
- **No Expensive Dispensing Equipment Needed**
- **Bonds to Most Dry Surfaces**

## RECOMMENDED USES

**GelFoam** is excellent for sealing cracks and joints that leak or exhibit movement. It is ideal for use for;

- **Foundation Cracks**
- **Pipe Penetrations**
- **Pre-Cast Section Seams**
- **Rock Voids & Pockets**
- **Concrete Tie Holes**
- **Floor & Wall Joints**

## SURFACE PREPARATION

Remove any loose, flaking, or deteriorated concrete. For crack injection, drill holes at a 45° angle to intersect the crack path at approximately half the depth of the concrete. Clean drilled holes of all dust and debris before installing injection ports. For high-pressure injection, the surface of the crack between the ports should be sealed with a fast-setting epoxy paste.

## APPLICATION INSTRUCTIONS

**Note: These are general guidelines. Application methods may vary depending on which kit purchased and job site conditions.**

- 1. Setting Injection Ports:** Set injection ports and seal crack with a fast-setting epoxy crack paste such as LCR Epoxy Repair Paste.
- 2. Fill Empty Side With Water:** Remove the plunger from the empty side and fill with clean water. Before reinserting, place a zip tie or similar between the plunger and tube wall to create a small air gap so trapped air can escape. Without this, air pressure will prevent the plunger from sliding in fully. Remove the zip tie once the plunger is seated.
- 3. Attach Static Mixer:** Remove the cap or plug from the cartridge neck. Slide the static mixer over the neck, then secure it with the locking nut, tightening firmly.
- 4. Dispense Material:** Inject resin into the lowest port with steady, even pressure until it appears at the next port. Cap the lower port, move up, and repeat until all ports are filled and capped.
- 5. Save Unused Material:** Re-cap cartridge to save for later.

## PACKAGING

**GelFoam** is available in a dual **22 fl. oz. (651 ml) Cartridge** or a **Case of 12-22 fl. oz. (651 ml) Cartridges**. And also in a **1 Gallon Bucket**, or **5 Gallon Bucket**.

## SHELF LIFE

Factory sealed containers of this product are guaranteed to be of first quality for a minimum of 12 months.

## LIMITATIONS

Not for use on contaminated or oily surfaces.

Not intended for use as a primary structural repair material.

**DO NOT** install when surface temperature is below 45°F (7°C) or above 90°F (32°C).

High volume water flow will require optional accelerator catalyst to adjust foam expansion rate.

## CAUTIONS

Product is moisture-activated. Keep containers tightly sealed to prevent exposure to atmospheric moisture.

Wear chemical goggles and NIOSH approved respirator.

Wear proper protective clothing and gloves to prevent direct skin contact of resins. Consult the Safety Data Sheet for full listing protective requirements.

During damp and/or cool conditions GelFoam will cure slower. **DO NOT** put repaired concrete into service until fully cured.

**GelFoam** may irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin.

For professional use only.

Keep out of reach of children.

## TECHNICAL SPECIFICATIONS

Typical Properties | All Values Measured After 7 Days at 73°F (23°C).

**Mix Ratio: (By Volume)** ..... 1A to 1 Part Water  
**Working Time: (73°F - 23°C)** ..... 60 sec.  
**Cure Time: (73°F - 23°C)** ..... 90 min.  
**Viscosity:** ..... 230 cps  
**Tensile Strength: (ASTM D-1623)** ..... 375 psi  
**Elongation: (ASTM D-1623)** ..... 410%  
**Shear Strength: (ASTM D-273)** ..... 175 psi.  
**Color:** ..... Milky White

## POLYGEM LIMITED WARRANTY:

Polygem warrants that during the shelf life of the product (as determined from the date of manufacture), the product will conform to the specifications provided in this technical bulletin. **POLYGEM MAKES NO OTHER WARRANTIES, EXPRESSED, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.** Neither any performance or other conduct, or any oral or written representation, statement or advice provided by Polygem or any of Polygem's distributors, agents, or employees will create a warranty, or in any way increase the scope or duration of this limited warranty. Polygem will have no warranty obligation if the product becomes defective, in whole or in part, as a result of: (i) the transportation of the product; (ii) any alteration or modification to the product by third parties; or (iii) improper handling or storage of the product (including improper handling or storage by third-party carriers or distributors).

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