

# POLYFOAM -LV

## EXPANDING POLYURETHANE INJECTION FOAM

Data Sheet 012

### 1. PRODUCT NAME

POLYFOAM-LV

### 2. MANUFACTURER

Polygem, Inc.  
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### 3. PRODUCT DESCRIPTION

POLYFOAM-LV is an innovative blend of hydrophobic polyurethane resins designed to provide the ultimate solution for crack repair and void grouting applications. In contact with water, POLYFOAM-LV will expand up to 10 times its original volume creating a permanent, flexible and water-tight seal. POLYFOAM-LV eliminates the need for costly equipment and messy cleanups. POLYFOAM-LV is packaged in dual 22 oz. cartridges that easily dispensed in most standard dual cartridges dispensers.

#### Advantages

- Flexible foam seal
- 10 times original volume expansion
- No expensive dispensing equipment needed
- Convenient dual-cartridge system
- Bonds to most wet or dry surfaces

#### Uses

For the sealing of cracks and joints that leak or exhibit movement. POLYFOAM-LV is ideal for use in:

- Foundation Cracks
- Fill voids and Rock Pockets
- Pipe Penetrations
- Concrete Tie Holes
- Pre-Cast Section Seams
- Floor/Wall Joints

### 4. APPLICATION INSTRUCTIONS

- 1) Prepare crack by setting injection ports and sealing crack with a fast-setting paste epoxy.
- 2) Place static mixer on end of cartridge and secure with retaining nut. Pre-dispense small amount of resin and discard to ensure proper mixing and ratio.
- 3) Put cartridge in dispensing gun and place static mixer tip into injection port.
- 4) Slowly dispense resin into injection port using low pressure to ensure maximum foam development. Allow resin/foam to rise into adjacent or next higher port. Cap filled port and repeat dispensing procedure into the next port until all injection ports are filled.

- 5) Remove static mixer and re-seal cartridge "D" plugs to preserve any unused resin.

Consult Polygem for additional technical instructions for crack repair specifications.

#### Packaging

POLYFOAM-LV is available in dual 22 ounce caulk tubes and also in one gallon, and 5 gallon bulk containers.

#### Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for min. 6 months.

#### Limitations

- Not for use as a structural repair. Use Polyject #1001 Epoxy Injection Resin.
- 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 reacts with moisture, keep containers tightly sealed and avoid exposing unused resin to moisture or humidity.
- Wear chemical goggles and NIOSH approved respirator. Wear proper protective clothing and gloves to prevent direct contact of uncured resin. Consult Material Safety Data Sheet for full listing protective requirements.
- During cold weather, protect finished work from traffic until fully cured.
- POLYFOAM-LV may irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin.
- For professional use only.
- Keep out of reach of children.

### 5. TECHNICAL DATA

Performance Properties  
Test/Test Method Results

Water Absorption ASTM D-2127	<1%
Shrinkage ASTM D-2126	<0%
Color	Amber Clear
Viscosity	400 cps.

#### Foam Expansion Results

	Restricted Rise	Free Rise
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Density ASTM D-1622	60 lbs/ft	8 lbs/ft.
Tear Strength ASTM D-624	400 psi	50 psi
Tensile Strength ASTM D-638	2000 psi	320 psi
Elongation ASTM D-638	100%	100%

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Polyfoam-LV.doc/Rev. 9/5/08

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