

POLYFOAM 1-C

FLEXIBLE POLYURETHANE INJECTION FOAM

Data Sheet 006

1. PRODUCT NAME

POLYFOAM 1-C

2. MANUFACTURER

Polygem, Inc.
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3. PRODUCT DESCRIPTION

POLYFOAM 1-C is an innovative blend of hydrophilic/hydrophobic polyurethane resins designed to provide the ultimate solution for crack repair and void grouting applications. In contact with water, POLYFOAM 1-C will expand up to 20 times its original volume creating a permanent, flexible and water-tight seal. POLYFOAM 1-C eliminates the need for costly equipment and messy cleanups. POLYFOAM 1-C is packaged in unique 10 fl. oz. caulk-style cartridges that easily dispensed in any standard caulk gun!

Advantages

- Very flexible foam seal
- 10 times original volume expansion
- No mixing or expensive dispensing equipment
- Single 10 oz. cartridge fits in ordinary caulk guns
- Bonds to most wet or dry surfaces

Uses

For the sealing of cracks and joints that leak or exhibit movement. POLYFOAM 1-C 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) Remove red cap and cut 1/8" max. off the tip or puncture tip with small diameter nail.
- 3) Put cartridge in caulk gun and place cartridge 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) Re-cap cartridge to preserve any unused resin.

Consult Polygem for additional technical instructions for crack repair specifications.

Packaging

POLYFOAM 1-C is available in standard size 10.3 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 1-C 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	Clear
Viscosity	600 cps.

Foam Expansion Results Restricted Rise Free Rise

Density ASTM D-1622	65 lbs/ft	10 lbs/ft.
Tear Strength ASTM D-624	400 psi	55 psi
Tensile Strength ASTM D-638	2200 psi	300 psi
Elongation ASTM D-638	400%	400%

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