

### 1. PRODUCT NAME

GEM-LOCK

### 2. MANUFACTURER

Polygem, Inc.  
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### 3. PRODUCT DESCRIPTION

GEM-LOCK is an extremely strong and durable epoxy sealant specially formulated to resist tampering or removal. GEM-LOCK exhibits superior adhesion to most surfaces such as concrete, metal, wood and fiberglass. GEM-LOCK is a hard yet resilient sealant offering excellent thermal shock and impact resistant.

GEM-LOCK is 100% solids epoxy with a non-sag consistency suitable for vertical and overhead applications. GEM-LOCK is easily mixed and applied by trowel or bulk loading caulk dispensers.

#### Advantages

- Excellent Adhesion to most Surfaces
- No VOC's or Solvents
- Tough and Durable Surface
- Chemical and Solvent Resistant
- Water Clean-up Formulation
- Resists tampering or removal

#### Uses

Typical application and uses are:

- Window & Door Frames
- Lock Ups
- Wall, Ceiling and Floor Joints
- Sinks and Toilets
- Chemical Anchoring

### 4. APPLICATION INSTRUCTIONS

- 1) Surfaces to be sealed should be clean of dirt, oils, surface water and loose paint or coatings.
- 2) Clean surface by shotblasting or sanding to provide clean and open surface.
- 3) Thoroughly mix measured amounts of 1 part of Part-A Resin with 1 part of Part-B Hardener by volume until streak free. Scrape side and bottom of pail frequently during mixing to insure a good mix. Mix only enough that can be applied in 45 minutes.

- 4) Spread mixed epoxy with trowel or dispense with a bulk loading type caulking dispenser.
- 5) Use a cloth or sponge dampened with water to smooth epoxy surface. Clean up any un-cured epoxy with warm soapy water.

Consult Polygem for additional technical instructions for GEM-LOCK.

#### Packaging

GEM-LOCK is available in these kit sizes:  
22 ounce dual cartridge, 2, 10, and 100 gallon kits

#### Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for min. 24 months.

#### Limitations

- Not for use on contaminated or oily surfaces.
- Do not install when surface temperature is below 50°F (7°C) or above 95°F (32°C).
- During damp and/or cool conditions epoxy will cure slower and protect finished work from traffic until fully cured.

#### Cautions

- Wear chemical goggles and NIOSH approved respirator. Wear proper protective clothing and gloves to prevent direct contact of resins. Consult Material Safety Data Sheet for full listing protective requirements.
- GEM-LOCK 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

Tensile Strength ASTM D-638	5,000 p.s.i.
Compressive Strength ASTM D-638	14,500 p.s.i.
Impact (IZOD) Strength ASTM D-638	.22 ft. lbs
Heat Deflection Temperature ASTM D-648	165°F
Gel Time @ 77°F (100 gms)	75 mins.
Cure Time @ 77°F	16 hours
Shore D Hardness	90/85
VOC Content	0 %
Mix ratio by volume	B/A 1 1:1
Mixed Viscosity	Heavy Gel
Color Mixed	Gray
Weight per 2 Gallon Kit	27 Lbs

Polygem, Inc. warrants its products to be free of manufacturing defects and that, at the time and place of shipment, our material will meet current physical properties when applied within Polygem's directions and tested in accordance with ASTM and Polygem standards. Polygem, Inc.'s liability is limited to replacement of material found defective. As Polygem, Inc. has no control over the use to which others may put its products, it is recommended that the product be tested to determine if suitable for a specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Nothing contained herein shall be construed to be a recommendation to use or as a license to operate under or to infringe any existing patents.

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Data sheets are subject to change without notice, for latest revision check our website at [www.polygem.com](http://www.polygem.com)