



PolyFM™-SLV & LV Injection Grouts | SUPER LOW AND LOW VISCOSITY FORMULAS

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

POLYGEM
polygem.com

PRODUCT DESCRIPTION

PolyFM™ Injection Grouts are hydrophobic polyurethane injection grouts designed to permanently seal water leaks and fill voids in concrete and masonry structures. Upon contact with water, these resins rapidly expand to form a tough, flexible, and resilient closed-cell foam, creating a permanent watertight barrier.

PolyFM™-SLV is a super low viscosity, single component resin that is ideal for sealing fine cracks.

PolyFM™-LV is a low viscosity, two-component resin available in convenient dual cartridges for repairing wider cracks and voids.

ADVANTAGES

- **Hydrophobic Formulas** – [Repel Water](#)
- **Expands to Form a Flexible, Closed-Cell Foam Seal**
- **Bonds to Wet & Dry Concrete Surfaces**
- **Solvent Free & 100% Solids**
- **Excellent Chemical Resistance**

RECOMMENDED USES

PolyFM permanently repairs joints in:

- **Manholes**
- **Elevator Pits**
- **Concrete Dams**
- **Expansion Joints**
- **Swimming Pools**
- **Pipe Penetrations**
- **Cold Joints**
- **Water Holding Tanks**
- **Tunnels and Subways**
- **Concrete Tie Holes**
- **Void & Rock Pocket Grouting**
- **Basement & Foundation Walls**
- **Pre-Cast Section Seams**
- **Floor/Wall Joints**

PACKAGING

PolyFM-SLV: (Single Component System)
1 Gallon Bucket, or a 5 Gallon Bucket.

PolyFM-LV: (2-Component System)
11 fl. oz. Cartridge, a case of 24- 11 fl. oz. Cartridges or, a 22 fl. oz. Cartridge or a Case of 12-22 fl. oz. Cartridges.

STORAGE & HANDLING

For best results, purchase quantities suited to your project and use material soon after receipt. We recommend to store the material at 72°F (23°C).

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).

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

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

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. Preparation:** For the two-component LV cartridge, attach the static mixer and dispense a small amount of material until the color is uniform. The single-component SLV is ready to use from the container.
- 2. Dispensing:** Using low, steady pressure, slowly dispense the resin into the port. Continue injecting until you see resin flow out of the next adjacent port.
- 3. Continue:** Cap the filled port, move to the port where resin just appeared, and repeat the process until all ports are filled and the entire crack is sealed.
- 4. Clean Up:** Clean tools and equipment immediately with xylene or acetone. Cured material must be removed mechanically.

TECHNICAL SPECIFICATIONS

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

Super Low Viscosity (SLV) For 1/8 in. - (3.17 mm) Cracks

Pot Life: (100 gms)	45 min.
Mix Ratio:	Single Component
Viscosity:	200 cps
Cure Time: (73°F - 23°C)	6 min.
Solids Content:	100%
Tensile Strength: (ASTM D-1623)	29 psi
Elongation: (ASTM D-1623)	60%
Shrinkage: (ASTM D-2126)	0%
Density (Free Rise): (ASTM D-1622)	2.02 lbs/ft ³
Mixed Color:	Amber

Low Viscosity (LV) | For 1/4 in. + (6.35 mm) Cracks

Pot Life: (100 gms)	40 min.
Mix Ratio: (By Volume)	1A to 1B
Viscosity:	400
Cure Time: (73°F - 23°C)	6 min.
Foam Expansion:	Up to 10x (Original Volume)
Water Absorption: (ASTM D-2127)	< 1%
Shrinkage: (ASTM D-2126)	< 1%
Density (Free Rise): (ASTM D-1622)	8 lbs/ft ³
Density (Restricted): (ASTM D-1622)	60 lbs/ft ³
Tensile (Free Rise): (ASTM D-638)	320 psi
Tensile (Restricted): (ASTM D-638)	2,000 psi
Elongation (ASTM D-638)	100%
Mixed Color:	Amber

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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