



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	• Water Holding Tanks
• Elevator Pits	• Tunnels and Subways
• Concrete Dams	• Concrete Tie Holes
• Expansion Joints	• Void & Rock Pocket Grouting
• Swimming Pools	• Basement & Foundation Walls
• Pipe Penetrations	• Pre-Cast Section Seams
• Cold Joints	• 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/ft³
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/ft³
Density (Restricted): (ASTM D-1622)	.....	60 lbs/ft³
Tensile (Free Rise): (ASTM D-638)	.....	320 psi
Tensile (Restricted): (ASTM D-638)	2,000 psi
Elongation (ASTM D-638)	100%
Mixed Color:	Amber

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