



# 1001 – Epoxy Injection Resin™ | AVAILABLE IN LOW AND EXTRA HIGH VISCOSITY FORMULAS

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

**POLYGEM**  
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## PRODUCT DESCRIPTION

**1001-Epoxy Injection Resin™** is a 100% solids, two-component, moisture insensitive epoxy designed to penetrate hairline cracks in concrete structures. Unique wetting properties allow maximum penetration of #1001 LV into cracks as small as .005 in. (0.127 mm).

## ADVANTAGES

- **100% Solids**
- **No VOCs**
- **No Solvents**
- **Chemical & Solvent Resistant**
- **Restores Structural Strength**
- **Excellent Adhesion To Concrete, Wood, Fiberglass, & Metal Surfaces**

## RECOMMENDED USES

**1001 RESIN** permanently repairs and seals cracks in concrete such as:

- **Basement Foundation Crack Repair**
- **Industrial Warehouses**
- **Residential Flooring**
- **Patio's and Sidewalks**
- **Parking Decks**
- **Reservoirs & Tank Repair**
- **Pool Leak Repair**
- **Parking Decks**
- **Balconies**

## SURFACE PREPARATION

Surface must be dry, and free of all contaminants before proceeding. Remove all loose or flaking concrete with a wire brush. Dirt, grease and flaking paint must also be removed prior to application.

## APPLICATION INSTRUCTIONS

### WEAR GLOVES & EYE PROTECTION

**Note:** If using a cartridge follow mixing and dispensing instructions that came with the cartridge. For all other kit configurations proceed to step 1.

1. Mix 2 parts A to 1 part B (2A:1B) by volume. DO NOT mix more than can be applied within 15 minutes. We recommend mixing no more than ½ gallon at a time.
2. Once materials have been combined stir with a mixing stick or slow speed drill with a mixing paddle for 1-3 minutes until streak free and uniform in color scrape sides and bottom of container and avoid whipping air into mix.
3. **1001-Epoxy Injection Resin** can be applied by pouring, squeegee, brush, or roller. Material must be mixed, dispensed, and applied all within 15 minutes.
4. Clean up any uncured epoxy resin with isopropyl alcohol or acetone.

## PACKAGING

**1001 RESIN Low Viscosity (LV)** is available in a **16.5 fl. oz. cartridge, 1.5 gallon kit, or a 3 gallon kit.**

**1001 RESIN Extra High Viscosity (EHV)** is available in a **16.5 fl. oz. cartridge, or a 3 gallon kit.**

## SHELF LIFE

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

## LIMITATIONS

Not for use on contaminated or oily surfaces.

**DO NOT** install when surface temperature is below 40°F (4°C) or above 90°F (32°C).

During damp and/or cool conditions 1001 Resin will cure slower. **DO NOT** put repaired concrete into service until fully cured.

## TECHNICAL SPECIFICATIONS

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

### Low Viscosity (LV) For 1/8 in. – (3.17 mm) Cracks

<b>Pot Life:</b> (100 gms)	45 min.
<b>Mix Ratio:</b>	2A to 1B
<b>Working Time:</b> (73°F - 23°C)	30 min.
<b>Thin Film Set Time:</b> (73°F - 23°C)	2-3 hrs.
<b>Full Cure Time:</b> (73°F - 23°C)	24 hrs.
<b>Compressive Strength:</b> (ASTM D-695)	7,908 psi
<b>Compressive Modulus:</b> (ASTM D-695)	135 ksi
<b>Tensile Strength:</b> (ASTM D-698)	5,868 psi
<b>Flexural Modulus:</b> (ASTM D-790)	270 ksi
<b>Flexural Strength:</b> (ASTM D-790)	948 ksi
<b>Elongation at Break:</b> (ASTM D-638)	2.73%
<b>Shrinkage:</b>	0.001 in./in.
<b>Heat Deflection Temp:</b> (At 66 psi)	120 °F (49 °C)
<b>Shore D Hardness:</b> (ASTM D-2240)	80D
<b>Viscosity:</b>	580 cps
<b>Mixed Color:</b>	Amber

### Extra High Viscosity (EHV) | For 1/4 in. + (6.35 mm) Cracks

<b>Pot Life:</b> (100 gms)	40 min.
<b>Mix Ratio:</b>	2A to 1B
<b>Thin Film Set Time:</b> (73°F - 23°C)	5-7 hrs.
<b>Full Cure Time:</b> (73°F - 23°C)	36 hrs.
<b>Compressive Strength:</b> (ASTM D-695)	11,450 psi
<b>Tensile Strength:</b> (ASTM D-638)	4,455 psi
<b>Elongation at Break:</b> (ASTM D-638)	9.5%
<b>Shrinkage:</b>	0.001 in./in.
<b>Heat Deflection Temp:</b> (At 66 psi)	120 °F (49 °C)
<b>Shore D Hardness:</b> (ASTM D-2240)	65-70D
<b>Viscosity:</b>	Non-Sag
<b>Mixed Color:</b>	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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