



# PUR2 POLYUREA GROUTING FLUID TYPE 2

## FOR FILLING OF EXPANSION JOINTS

### SINGLE-COMPONENT POLYUREA INJECTION GROUT (ENHANCED TYPE JL0007-II)

Polyurea injection grout enhanced version is a high-performance, high-polymer single-component leak sealing and injection grout formulated using environmentally stringent standards. It is based on polyurea emulsion and processed through scientific methods. With high solid content and no shrinkage, this product exhibits superior leak sealing performance compared to conventional grouts, thanks to its hydrophilic reaction. Additionally, it has high strength and elongation, allowing it to effectively seal joints, effectively addressing water leakage and re-leakage in structural cracks such as expansion joints, contraction joints, and construction joints. It is an ideal new type of leak sealing injection.

### FEATURES

1. It can fully cure underwater and has good adhesion to wet surfaces and concrete.
2. It forms a dense internal structure, providing excellent waterproofing.
3. The curing process is not sensitive to temperature and can be achieved in both high and low temperatures without shrinkage.
4. It has a certain level of strength and elasticity, allowing for reinforcement.
5. Being a single-component product, it is easy and convenient to use without the need for mixing.
6. It is resistant to water, acids, and alkalis, as well as high and low temperatures.
7. It is environmentally friendly and non-toxic, posing no harm to human health.

### PHYSICAL PROPERTIES

ITEM	SPECIFICATIONS
Solid content /%	≥ 95
Surface drying time /h	≤ 2
Curing time /h	≤ 5
Tensile strength /Mpa	≥ 2
Elongation at break /%	≥ 500
Bond strength /Mpa	≥ 1.5
Hardness (Shore A)	≥ 20
Low-temperature flexural properties /°C	-40
Water impermeability /0.3 MPa for 120 mi	impermeable to water
Density /g /cm <sup>3</sup>	1.5



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### CONSTRUCTION PROCESS

1. Thoroughly clean the crack area and remove any debris or loose materials, ensuring that the gap is clean and free from foreign objects and dust.
2. Install the pre-embedded grouting nozzles, spacing them at intervals of 10-15 cm. At the intersections of cracks, add an additional grouting nozzle at a 45° angle.
3. Inject the grout from the bottom up, applying pressure for 2-3 seconds after each grouting nozzle is filled.
4. If the fluid is too thick, **dilute with solvents like ethyl acetate or dimethyl carbonate (C<sub>3</sub>H<sub>6</sub>O<sub>3</sub>).**

Note: Ensure that the crack is fully filled with grout.

### APPLICATION METHOD

It is suitable for leak sealing and injection grouting in underground projects, subway systems, tunnels, pipe corridors, culverts, and other concrete structures. It is particularly effective for grouting and sealing in structures with significant vibration and deformation, such as shield tunnel segments, deformation joints, and expansion joints.

### PACKING

10-litre barrel

### STORAGE SHELF LIFE

9 months (when stored in a dry and ventilated place)

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