

InjectProECO-LV

Phthalate free, hydrophobic, flexible polyurethane grout for stopping active leaks in cracks

CSI Div. 03

03 64 00 Injection Grouting



Product Description:

InjectProECO-LV is a closed cell, high performance polyurethane injection grout designed for use to cut off gushing water leaks with a high flow rate and/or high hydrostatic pressure in low range dynamic cracks.

When it comes in contact with water, the grout expands up to 800% and quickly cures to a tough, flexible, closed-cell polyurethane foam that is generally unaffected by common corrosive environments and is not subject to shrinkage due to wet/dry cycles.

The system is comprised of an "A" component (base resin) and a "B" component (accelerator). The "B" component is used by the applicator to adjust the set times for various job site specific conditions.

InjectProECO grouts are formulated with the newest phthalate free technology to be environmentally friendly and contain zero VOC's.

Typical Applications:

- Any concrete structure with water leaks such as:
- Water Retaining Structures, Concrete Dams, Tunnels, Elevator Pits, Parking Garages, etc.

Advantages:

- Phthalate free
- Zero VOC's - meets LEED criteria
- 100% solids, non-flammable
- Hydrophobic - can be used in wet and dry environments
- Pumped as a single component
- Excellent elongation creates a tight seal in moving cracks
- Adjustable reaction times
- Non-hazardous shipping, non-toxic permanent seal

Reaction Times & Use of Accelerator:

The reaction time can be adjusted by the addition of accelerator "B" into the base resin prior to pumping. The resulting profile is affected by temperature and the amount of moisture present.

Typical reaction times:

Accelerator %	Reaction	Polymerisation
6%	30 seconds	115 seconds
8%	25 seconds	90 seconds
10%	20 seconds	75 seconds

Installation Procedures:

Refer to the Aquafin InjectPro Grouting Guideline for full instructions. Mix both the resin (Component A) and accelerator (Component B) before combining.

- Pour the desired amount of InjectProECO-LV Resin Component A into a clean pail.

Physical Properties - liquid (un-cured)	InjectProECO-LV Resin	ECO-LV Accelerator
Color	Amber	Clear
Solids (ASTM D-2369)	100%	n/a
Viscosity (ASTM D-1638)	~400 cps	~8 cps
Density (ASTM D-4659)	~67 lbs. ft ³ (~1.0 g/cm ³)	~57 lbs. ft ³ (~0.7 g/cm ³)
Flash Point (ASTM D-92)	>300°F	>300°F

Physical Properties - solid (cured)	InjectProECO-LV Resin
Density - Free Foam (ASTM D-1622)	~2.4 lbs./ft ³
Density - Confined (ASTM D-1622)	~96 lbs./ft ³
Compressive Strength (contingent on confinement)	26 psi
Toxicity	non-toxic

- Measure the appropriate amount of InjectProECO-LV Accelerator Component B and pour into the InjectProECO-LV Resin, stirring until adequately mixed. Never use more InjectProECO-LV Accelerator than recommended. Excess accelerator will cause significant expansion that is prone to shrinkage.

During injection, the grout will follow the path of least resistance. When the material has stopped penetrating it will continue to expand against the confines of the crack/joint and compress within itself, forming a very dense, closed cell material stopping the leak.

Packaging:

InjectProECO-LV Resin: 5 gallon pails
 InjectProECO-LV Accelerator: 32 oz. container
 (5% dosage per 5 gallons of resin. For 10% acceleration use 2 x 32 oz.)

Storage & Shelf Life:

12 months when stored properly. Product is highly moisture sensitive. Store in original sealed containers at temperature between 60°F - 90°F. Opened containers must be handled properly to prevent moisture contamination.

Limitations:

- Temperature significantly affects viscosity. Protect material from excessive heating and cooling prior to grouting to avoid affecting viscosity.
- If using water baths to cool or heat pails avoid splashes to prevent water coming in direct contact with resin - this will activate the reaction. Do not warm material or packaging above 90°F.
- Do not reuse containers of contaminated materials as it can create pressure.
- Clean up spills with adequate ventilation and appropriate personal protective equipment. Cover the spill area with absorbent material

InjectProECO-LV

such as clay or vermiculite and transfer to metal waste containers. Wash area with decontamination solution (5-10% solution of sodium carbonate). Dispose of waste in accordance with federal, state and local regulations.

Note:

Proper application is the responsibility of the user. Field visits by AQUAFIN personnel are for the purpose of making technical recommendations and not for supervising or providing quality control on-site.

Safety:

Refer to SDS. For commercial use only. Avoid contact with skin and eyes. Wear rubber gloves and safety goggles during mixing and application. After contact with skin, wash with plenty of water. In case of eye contact, rinse immediately with plenty of water for 15 minutes and seek medical advice. KEEP OUT OF REACH OF CHILDREN.

LIMITED WARRANTY: AQUAFIN, INC. warrants this product for a period of one year from the date of installation to be manufactured free of defects and to be consistent with its technical properties as stated in our current Technical Data Sheet. This product must be used as directed and within its stated shelf life. AQUAFIN INC. will replace or at our discretion refund the purchase price of any product, excluding cost of labor, which is proven to be defective. Our product recommendations are based on industry standards and testing procedures. It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. We assume no warranties written, expressed or implied as to any specific methods of application or use of the product. AQUAFIN INC. MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. AQUAFIN, INC. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

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