



Epoxy/Polyurethane Injections



Sealing cracks in pool at Hilltop Rehabilitation Center Pool.
---Grand Junction, CO

Epoxy injection is a procedure to “weld” cracks in concrete together, which improves its performance and extends its useful life. It involves a low viscosity epoxy resin mixed according to specifications and pumped under pressure through drilled holes that intersect the crack, and/or through injection ports mechanically or epoxied in place over the crack.

Mays Construction Specialties, Inc. uses the latest equipment and proven materials with trained and certified repair technicians to ensure the desired results required for this type of repair work.

Polyurethane grout injection used to strengthen soil surrounding a stream culvert under Hwy. 50, permeates sands and clays.
---Clifton, CO



Polyurethane grout injection to seal ground water from Cliton Water District underground utility vault.
---Clifton, CO



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Polyurethane Injections

Polyurethane resin is most commonly used for water control, and usually used for one of the following:

Injected into cracks or joints to form a gasket; Injection through a structure to form a barrier between structure and soil; Injection into the soil to consolidate the soil into a monolithic impermeable barrier. Polyurethane resins or grouts form gels, foams or solids, and are hydrophilic or hydrophobic. They are very stable, and have good resistance to acids and alkalis. Life expectancy of polyurethanes can be measured in one to two decades. These resins have many desirable qualities, such as expansiveness, adherence to wet or dry surfaces, controllable set times, a tenacious bonding ability, chemical resistance, and is reacted by the very water that you may be trying to stop.

Mays Construction Specialties, Inc. has been using polyurethane resins for over ten years, and in many different types of applications, including soil stabilization and injection into rock strata, dams, water tanks, water treatment plants, pools, and residential basements.

MCSI has many pieces of specialized equipment necessary for a wide range of projects, and has trained personnel with years of experience, to assure the results required by our client.

Benefits / Advantages:

- Tenacious bond; a good adhesive
- Can be made very moisture tolerant
- Good resistance to wear
- Good to about 180F
- Outstanding resistance to alkali, inorganic acids and many solvents
- Can be made to cure under cold, wet conditions
- Excellent adhesion to most materials
- Can be highly filled with low shrinkage

MCSI is qualified and/or certified in the installation of these materials and systems (this is a partial list)

- 3M
- Atlas Systems
- Avanti International
- Cellular Concrete LLC (CLSM)
- Con-Tech Systems, Inc.-
Ischebeck/Titan
- Dayton Superior
- DeNeef
- Dex-o-tex
- Dow Corning
- Dwyidag-Systems International (DSI)
- Earth Contact Products (ECP)
- Euclid
- General Polymers
- Green Mountain
- L.M. Scofield
- Maccaferri
- Master Builders
- Prime Resins
- Quickrete
- Sika
- Sivento
- Sonneborn
- Strata-Tech, Inc.
- Super-Krete
- TenCate (geo-synthetics)
- Tremco/Vulkum
- USG Levelrock
- Williams Form Engineering
- Xypex



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