



## Technical Data Sheet

### EpoxyInjection

**EpoxyInjection** is a 2-component, 100% solids, toughened low-viscosity epoxy injection formulation specifically designed for in-place resin injection for cracked concreted structures such as dams, locks, canals, power plants, water reservoirs, water treatment facilities, foundations, parking garages, aqueducts, etc. This low viscosity epoxy is pumped into holes and cracks to create waterstops in weakened concrete infrastructure systems. It provides excellent adhesive characteristics while exhibiting good chemical resistance, water infiltration and exfiltration resistance. It exhibits low odor emissions, 0% VOCs, long working time, excellent cure at low temperatures and high humidities, superior hardness and low viscosity for high-penetrating injection. This material will bond to concretes, masonry and metals.

Epoxy Injection may be applied using plural component mixing pumping systems or conventional pressure pot/mix systems at a 2:1 dispensing ratio. This 2K epoxy injection material adds strength or structural preservation to the concrete system when fully cured. Its cure times may be adjusted for specific difficult applications. It conforms to ASTM C-881, Types I, II, IV adhesive, Grade-1, Class C and AASHTO M-235 specifications.

Please contact our technical support group for specific substrate application procedures, equipment, safety gear and clean-up kits. Refer to MSDS for material and safety standard procedures.

### Technical Application Data

Mixture ratio is 2A (Resin) to 1B (Hardener). This material requires the use of a heated plural component pumping machine where temperature is used to control the viscosity

of the material (see Fig.1) and mixing of the resin and the catalyst occurs at the nozzlehead. Material is to be applied within 60°F to 100°F.

## Physical Properties

### Epoxy Injection Physical Properties 1/8" Thickness

Flex Modulus	ASTM D624	500k psi
Hardness (Shore D)	ASTM D785	80-82
Compressive Strength	ASTM D695-85	12,000 psi
Flexural Strength	ASTM D790-86	11,000 psi
Tensile Strength	ASTM D412	7000 psi
Elongation	ASTM D412	<3%
Heat Deflection Temperature	ASTM D648	145 F
Viscosity	ASTM D2393-86	500-900, 700 cps @RT
Gel-Time/Pot life	Minutes	>140
Taber Abrasion CS18	ASTM D4060	80
Mix Ratio	PBV	2A (Resin) : 1B (Hardener)
Color	Visual	Clear-Amber
Thin Film Set @77F	Hours	8
Thin Film Set @40F	Hours	96