

EPI's silicone-modified polymers provide solutions for new and aging wastewater facilities

EPI is committed to creating products to solve your protective coatings challenges

Public Works officials are fighting an endless battle of too many problems, too little time and too little money.

Corroded wastewater systems are buckling streets, disrupting traffic and creating huge maintenance and liability issues.

Traffic loading and vibration, expanding soils, temperature variations and ground water fluctuations all contribute to structural deterioration and ground water infiltration. Sulfur rich effluents, warm, moist environment and long retention times promote microbiologically induced corrosion from hydrogen sulfide and sulfuric acid.

Engineered Polymers International's (EPI) silicone-modified polymers provide cost-competitive solutions for municipal wastewater facilities. They are ideal for both rehabilitation and new construction. These polymers are designed to help prevent structural deterioration, ground water infiltration and microbiological induced corrosion. Properly applied*, they can extend the design life of new construction and rehabilitate aging wastewater systems to their original specifications. EPI's silicone-modified polymers protect immersed surfaces like wet wells and large diameter pipes. They provide ideal linings for lift stations digesters, clear wells and filter beds.



A typical scene showing corrosion and structural deterioration before an application of EPI's silicone-modified polymers

EPI's silicone-modified polymers cure under hot and cold conditions so they can be applied year-round. A single, stand-alone application can build up to 250 mils or more. Their high tensile strength, low permeability and high-impact resistance are ideal for wastewater systems where tough yet flexible lining is needed. With no-dig application methods and fast set characteristics, wastewater systems can return to service with minimal disruption to traffic and water service.



EPI's silicone-modified polymers stop water infiltration, structural deterioration, and corrosion problems

EPI's Features and Benefits

- No excavation saves time and money
- Fast cure time provides for minimal disruption to water supply and traffic flow
- Cures from -25 to 300 degrees F for year around maintenance.
- Tough, flexible coating resists cracking
- High mil build in one application saves time & labor costs
- Resistant to many solvents, caustics and acids for longer design life & reduced maintenance
- Waterproof, seamless & resilient to stop ground water infiltration
- Spray, hand mix and caulk grades are available

* EPI recommends that only certified applicators be used with a trained, experienced crew and an up-to-date mobile spray application rig. Before applying EPI's silicone-modified polymers, surface preparation is critical to remove all surface contaminants and to seal all leaks that cause unwanted ground water intrusion.