



Benefits of Poly-Triplex for Culvert applications: **Integrity | Permanence | Value**

Patented Non-Porous Membrane

The inner-membrane provides permanent barrier to prevent gases from penetrating the liner and attacking the host structure. It also provides permanent barrier to prevent infiltration of groundwater into the collection system. The membrane is encapsulated in the center of the laminated composite. One side of the liner provides bonding to the host structure – the other side provides protection to the Non-Porous Membrane.

Patented Installation Process

The Poly-Triplex installation process of injecting steam and air into the structure and curing the liner under pressure make it the only product that can use this method of installation

Bonds to the Host Structure and CIP Pipe

Unlike most CIPP, PTLS bonds to the surface of host structure. The liner is cured-in-place under air pressure and steam. The resins are pressurized into the pores, crack and crevices of the host structure. This bond prevents the liner from being pushed off the wall from groundwater infiltration. Poly-Triplex's liner and resins provides both a mechanical and chemical bond to CIP pipe through bonding to the fibers left exposed on the CIP Pipe.

PTLS may be Installed While Active Infiltration is Present

Other systems must stop all infiltration prior to installation or application which is often difficult or impossible. PTLS has the ability to stop the infiltration during the installation process. This is an especially critical benefit in brick structures. Infiltration is virtually impossible to stop in brick structures. PTLS resin system bonds in wet and dry conditions.

Lowest Overall Cost per year of Life

The PTLS is designed to last for 50-100 years. When compared to the cost and life expectancy of other systems, PTLS is by far the least expensive.

Proven Longevity

PTLS has a track record of success in the wastewater environment with more than 10,000 structures lined and more than 1000 structures installed for more than 10-years.

Structural Enhancement

Fiberglass adds structural enhancement to the host structure – forming a laminated composite bonded to the host structure – “much like the hull of a boat.” The PTLS process uses the existing structure as a mold – the liner is cured under pressure and contoured into the shape of the host structure.

97 Patent Claims Issued

There are 97 U.S. Patent claims issued on the PTLS making it the most unique and effective system for rehabilitation of wastewater structures available today.

Strongest Warranty in the Industry

PTLS is the leader in providing the industry with a 10-year, non-prorated materials warranty to stop infiltration and deterioration in wastewater manholes. The added benefit is that there have been virtually no warranty claims to date brought about from deterioration. Once the liner is properly installed, the utility can be assured that the problems within that structure have been stopped.