

Poly-Triplex Cured In Place Manhole Liner Technical Data Sheet

MANUFACTURER

Envirocort Technologies
1234 Main Street
Vero Beach, FL

DESCRIPTION

The patented Poly-Triplex Liner is a multi-layered custom fabricated Liner that consists of felt, fiberglass and an impermeable inner membrane that is protected between two layers of epoxy saturated fiberglass. 100% solids epoxy is used to wet out the Liner. The Poly-Triplex Liner eliminates inflow and infiltration, provides corrosion resistance for the original substrate, and structurally enhances the manhole.

TYPICAL USES

For manholes, wet wells, pump stations, and other underground structures that require rehabilitation due to inflow and infiltration, corrosion, and structural degradation.

COLOR

The Part A Resin is white; the Part B Curing Agent is dark brown. When mixed the product is tan.

DESIGN

A wide variety of Liner models are available. Liner thickness varies depending upon the number of layers of fiberglass and the weight of the fiberglass used. Liners can range from 100mils to 250mils. The minimum Liner thickness is determined by a formula based on bonding to the substrate. Design methodology and calculations are available upon request.

SURFACE PREPARATION

The substrate must be prepared to provide a clean surface. The substrate must be free of dirt, debris, oil, grease, rust, scale or deposits. A Concrete Surface Profile of 3 or greater is desired. All leaks must be stopped. All steps and other protrusions must be removed. Recommended PH of substrate is 4 to 10. Temperature range of substrate should be 40°F to 120°F

INSTALLATION

The Liner can be wet out in the field or at a wet out facility. The Liner is lowered into the manhole and aligned properly. Air pressure is used to inflate a bladder inside of the Liner. The Liner is inflated to press against the walls of the structure. Inflation pressures can range from ¼ psi to 8 psi. The Liner is then cured with hot water, steam or ambiently. Curing takes about an hour using steam. After curing all of the pipes are cut out and the Liner is cut off at the frame where the cover rests.

CLEAN UP

To clean tools, use acetone, MEK or xylene. To clean skin, wash immediately and thoroughly with soap and water. Refer to the Material Safety Data Sheet for additional information on health and safety.

POT LIFE

The pot life is 20 minutes for one gallon at 72°F. Longer pot life is possible by mixing cooling the resin.

PHYSICAL PROPERTIES

Physical Property	ASTM Standard	Series 4400	Series 5600	Series 6800
Tensile Strength	D 638	14,950	13,860	16,200
Comp.	D 695	4,773	9,040	11,630
Flexural Strength	D 790	30,094	33,946	39,866
Flexural Modulus	D 790	1,125,419	1,167,990	1,332,000
Adhesion	D 7234	Substrate Failure	Substrate Failure	Substrate Failure

WARRANTY

Manufacturer and Installer of the Liner system shall provide a 10-year warranty on materials and labor.