



What is I Line?

- ❖ I Line is actually a collection of restorative technologies geared towards addressing corrosion and abrasion issues, sealing and protecting pipelines, conduits and structures.
 - I Line Cured-in-Place liners are epoxy impregnated, flexible textile “tubes” that cure to a hard, impermeable structure: a pipe within a pipe. These tubes can vary in length and diameter ranging from 2.5 inches to 24 inches and beyond. Lengths range from short, economical “stints” designed to address a localized area to full length, seamless liners over 100 feet long. Installation techniques vary from liners that are pulled into place on inflatable, removable “balloons” or packers to an air inversion process where the liner is turned inside out into the pipe allowing a low impact insertion where the liner unfurls as it progresses. Air pressure is maintained on the liners until the epoxy cures.
 - The I Line Geotechnical Sealing Solution is a liquid silicate based process for sealing underground, gravity systems. Two discrete solutions are sequentially pumped into an isolated line section where they are each allowed to exfiltrate or leak out into the surrounding bedding. When these 2 components mix, they form a hard, impermeable water glass structure: much like sandstone, forming a sealing envelop on the outside of the pipe. The remaining components are pumped back into separate tanks for reuse in other areas.
 - The I Line Spray Applied Membrane is a polymer modified, asphalt based system that results in an impervious membrane. This water based, no VOC system is applied using very simple but robust spray equipment forming a barrier coating on most any substrate.

Where can I Line be used?

- ❖ I Line Cured-in-Place liners are generally intended for gravity to low pressure applications. Epoxies and textile tubes are selected from a variety of formulations and constructions to most appropriately address the conditions presented. All pipe and conduit materials of construction are suitable candidates for I Line. The effluent composition and environmental conditions will influence the epoxy selection. All epoxies used have a good resistance to most chemicals but some concentrations and temperatures may preclude the use: please call or email to verify suitability. We also use the same Engineering Evaluation Form as with I Wrap to gather pertinent jobsite information used in the material and deployment selection process.



- ❖ The I Line Geotechnical Sealing Solution or *Flood Grouting* is recommended for underground gravity systems only. Ideal candidates are sanitary lines, storm water systems, contaminated water sewers & oily water sewers. Flood grouting effectively seals the entire system using simple physics: if material can leak in or out of a line, the flood grout will find these areas and create a seal. The sealing materials are resistant to groundwater and sanitary sewerage as well as acids, oil, oil derivatives and organic solvents.
- ❖ I Line Spray Membranes can be applied to most any substrate to form a barrier coating and protect from moisture and corrosion, encapsulate asbestos, form a waterproof membrane and even provide sound attenuation. Adhesion is excellent with minimal surface preparation and superior resistance to cathodic disbondment. With an exceptional elongation and recovery the Spray Membrane is ideal in dynamic applications where thermal and mechanical movements render other materials ineffective. The membranes formed are also highly resistant to hydrogen sulfide gas as well as many other chemicals. When applied onto a geotextile fabric, the Spray Membrane forms an impervious barrier suitable for containment. Approved by the American Bureau of Shipping; testing results are available on the P Drive.

Other available technologies

- ❖ Spray Applied Polyurea linings
 - Polyurea can be applied robotically to the insides of pipes, tanks, troughs and vaults.
 - Polyurea can also be hand sprayed for large tank interiors
 - Excellent chemical and temperature resistance – suitable for most any environment up to 450°F
 - Outstanding abrasion resistance
 - Can be engineered for pressure applications up to 600 PSI
- ❖ Epoxy Injection Coating
 - Epoxy is injected into lines to restore corroded pipes
 - Diameters from 0.375” – 2.5”
 - Improves flow characteristics, seals minor leaks
 - Suitable for potable water lines
 - Operating temperatures up to 180°F

Call or e-mail for more information, application suitability: Bill Lepola - blepola@msglobal.net – 281.793.1577 – 713.851.6718