Why are you spending thousands of dollars each year treating clean water?

Lining is an excellent remedy for structural issues, but lining sewer pipes will not end your infiltration issues. Why would you use a liner to stop infiltration leaks when your sewer pipes are structurally sound?

If liners are required to repair structural problems with your sewer line, solve both issues – structural and infiltration – using AvantiGrout before lining.

Check the numbers:

- If you have a 300-foot section of 8-inch pipe with 3-foot joints, and 20% of the joints are leaking 1-gallon / minute.
- Infiltration into your system equals 10,512,000 gallons per year.
- Using a conservative cost estimate of $2.00 per thousand gallons to treat the water, you are spending $57.60 per day – that's over $21,000 annually on this 300-foot section.
- The industry average cost for grouting is $8-$12 per foot. By grouting this same section at a cost of $10 per foot, your grouting expense will total $3,000.
- In just 53 days you will have recouped your initial investment of $3,000, and at the end of the first year you will have saved over $18,000 in unnecessary treatment costs.

Over a ten-year period, your $3,000 “investment” will generate $207,240 in savings.

AvantiGrout is fast, sure, economical and proven for over 25 years.

Chemical grout was first developed and applied in 1955. Since that time it has been used to stop leaks in sewers, manholes, tanks, vaults, tunnels, and many other applications all over the world. Recent studies and over 50 years of experience indicate that America’s first trenchless technology is still the best, most cost-effective, long-term defense against infiltration of groundwater into structurally sound sewer systems.

AvantiGrout Forms a Waterproof Collar Around Leaking Pipes and Manholes

Chemical grouts do not stop sewer leaks simply by filling joints and cracks. Instead, grouting chemicals are forced through joints and cracks and into the surrounding soil where they gel to form a waterproof mass which cannot be pushed back into the sewer system.

This water-tight collar adheres to the outer surface of the pipe or manhole where it will stay indefinitely unless removed by excavation or exposed to sunlight for long periods of time. If groundwater pressures increase, the collar will be pressed even more tightly against the structure, increasing its ability to stop leaks.

If the humidity in the soil declines for a long period, the grout may begin to dry, also. However, when the soil humidity returns, the grout will absorb moisture and return to its original condition. The soil humidity around leaking manholes and sewers is almost always high enough to prevent any significant shrinkage of the gel.

AvantiGrout Stops Leaks at the 4 Critical Points of Entry

Most infiltration enters structurally sound sewer systems through joints, manholes, service connections, and the first few feet of the service lateral. The best and most economical way to stop these leaks is with chemical grout.

Chemical grouting usually costs less than ten dollars per foot for average residential lines. That makes grouting the least expensive rehabilitation method available, and it is also the least disruptive.

AvantiGrout Can Stop the Leaks Other Trenchless Processes Miss

Many trenchless processes are available for structural rehabilitation of pipelines, manholes, and even service laterals – but they need chemical grout, also. A barrier of AvantiGrout on the outside of manholes will protect interior linings from hydrostatic pressure. Stopping leaks with chemical grout before cured-in-place (CIP) linings are installed will prevent resin washout and result in much stronger pipes with more uniform wall thickness.

It is now recognized that full-length liners seldom reduce infiltration by more than 50%. Groundwater which cannot enter through joints and cracks can quickly migrate to service connections and manholes. Sealing these potential entry points with chemical grout can stop leaks completely and allow you to realize the maximum benefit from your rehabilitation investment.

AvantiGrout Allows Service Lines (Laterals) to be Sealed Cost-Effectively

Service laterals are often a source of significant infiltration. It usually costs less to treat the groundwater than to stop infiltration in these lines using dip-and-replace or lateral liner connections. However, chemical grout is so economical and effective that a positive return on investment can be realized.

In most cases only the last few feet of service lines are below the water table. Studies have shown that most infiltration into service lines occurs within a few feet of the main. Additionally, infiltration occurs at the lateral-to-main connection due to the “French Drain” effect created by the backfill in the mainline trench, allowing water to flow freely around the outside of the mainline pipe and into any unsealed connection.

AvantiGrout Offers a Long-Term Solution to Root Intrusion

Roots are often a costly, destructive intruder in sewer pipes. They can enter through microscopic openings, and then quickly grow in size and strength. This growth can crack and move even the strongest pipes, leading to leaks which overload treatment plants, clog pipes with silt, and wash away essential sewer support.

Mechanical cutters will clear a pipeline temporarily, but they also stimulate growth. Chemicals can kill the roots and retard new growth, but the residual chemicals are usually washed away in a year or less.

However, when a special growth inhibitor is mixed with AvantiGrout, it is encapsulated and cannot be lost. As a result, roots cannot penetrate the protective gel.

Invest in the Best

An experienced grout installer with good equipment and a positive record is a good investment. While chemical grout is the least expensive way to stop infiltration, the least expensive applicator is not always the best buy. Avanti encourages using an experienced applicator or contact Avanti for on-site training to always generate positive results. Avanti can also provide clear and accurate specifications that will assist you in ensuring the grout is properly installed.
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