

Introduction to the American Pipe Lining Method

1

Problems with Clogged and Corroded Pipe Systems?

Corrosion causes...

- ... pipe systems to fail in their job of transporting fluids efficiently
- ... leaks and the eventual ruin of the pipe system leading to costly replacement.



2

American Pipe Lining Method

"In-place" restoration of pipe...

- ... imposes minimal requirements for dismantling structures and altering the physical environment.
- ... minimally disrupts the tenants normal routine and does not displace them.
- ... is equally effective on pipe systems with angles, branches and changing pipe diameters from 1/2" to 8" and in lengths up to 500 feet.



3

Pipe Cleaning

The APL method...

- ... uses compressed air to transport an abrading agent which hits the inner walls of the pipe and dislodges any build up of corrosion, leaving a white-metal clean, abraded surface without the use of mechanical devices.
- ... uses a closed loop system to collect all corrosion and abrading agent without releasing material or dust into the environment.



4

Pipe Coating

The APL method...

- ... uses a liquid epoxy coating applied to the interior walls of the pipe using compressed air. Controlled air flow ensures complete coverage.
- ... uses APL-2000 epoxy which is EPA and NSF approved for potable water systems.
- ... uses an epoxy coating that leaves a smooth, hard finish which is resistant to the corroding action of acids, alkalis and petroleum.



5

Applications

The APL method...

- Water Systems
- Sewer Systems
- Petrochemical Industries
- Ships
- Buildings



... fast, long term, cost effective in-place pipe restoration

31675 W Eight Mile Road • Livonia, Michigan 48152 • 248-888-7777

www.americanpipelining.net

www.rooftermd.com

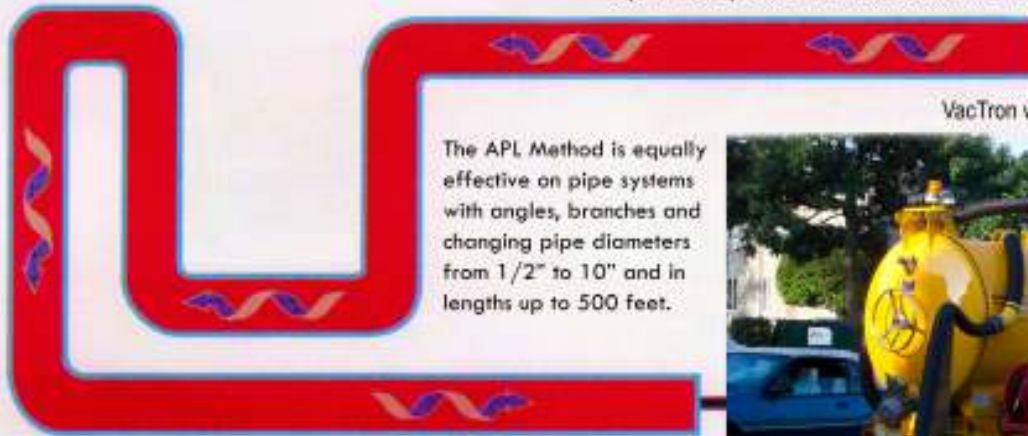
American Pipe Lining Method

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- STEP 1 Establish heated air flow to dry pipe interior
- STEP 2 Introduce abrading agent (garnet grit) into air flow to remove corrosion and mineral
- STEP 3 Pressure test system (50 lbs) to identify and repair air leaks
- STEP 4 Introduce epoxy paint APL-2000 (NSF-61 approved) into air flow to coat inside of pipes
- STEP 5 Reassemble system and hydro-test



Special Compressor with after cooler, filter and reheater



The APL Method is equally effective on pipe systems with angles, branches and changing pipe diameters from 1/2" to 10" and in lengths up to 500 feet.

VacTron with media and dust collection



5 Steps

1

A specialized compressor that produces superheated moisture/oil free air dries the interior of the pipe.

2

An abrading agent (garnet grit) is introduced into the air flow to remove any corrosion and mineral.

3

Water distribution pipes are then air tested (50 psi) to identify and repair any leaks.

4

APL-2000 Epoxy (NSF-61 approved) is injected into the airflow to coat the interior of the pipe.

5

After APL-2000 Epoxy cures the system is reassembled and hydro-tested for integrity.



American Pipe Lining
Great Lakes

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