

The background features a dynamic splash of clear water falling from the top right, creating numerous bubbles and ripples. Overlaid on this is a large graphic consisting of two concentric circles: an outer teal circle and an inner blue circle. The company name 'Belco' is centered within the blue circle, with a circular logo to its right that consists of three concentric rings in teal, blue, and white.

Belco

Superior Pipe Restoration Solutions

Proven, state-of-the-art technology that
saves money, time and inconvenience.

(631) 462-2952

belcopipe.com

About Us

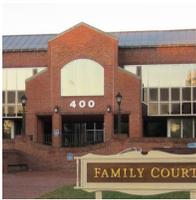
Belco Pipe Restoration was founded with the concept of using British lining technology to line inaccessible interior pipe of New York City's vast real estate market. While competing technologies existed, all others were designed with limited structural improvement or a slight deviation from municipal waste water applications that were ill-suited for the vertical runs found in the New York City market.

Knowing a virgin market existed that was ill-equipped to maintain degrading mechanical systems without complete pipe replacement, Belco was born. Now piping ranging from 1¼ inches to 72 inches can be tackled in large sections in the course of a standard working day. Systems become more efficient. The effects of pipe cleaning become permanent, and all this while tenants remain firmly in place and unaffected by the work done on off hours. Linings can vary as to the affluent of the pipe depending upon the client's needs.

All this as a division of a New York City Contractor with 80+ million dollars in revenues yearly, with over 40 years of experience, tremendous bonding and the highest insurance ratings possible give Belco's 10 year warranty the teeth needed to ensure your pipe security.

Belco's pipe lining products have grown to provide solutions for a range of clients, from large municipalities to small condominiums, in a wide variety of applications, such as potable water and steam returns, in both vertical and horizontal piping systems. Our commitment to provide top of the line service, employing qualified and experienced lining technicians, and using only the best and most precise lining equipment available, has made Belco one of the finest and most respected lining companies in North America.

Client List



Kent County Courthouse
Dover, DE



U.S. Government G.S.A.
Washington, D.C.



Naval Surface Warfare Center
Indian Head, MD



Bechtel
San Francisco, CA



JFK Airport
New York, NY



Horizon House
Naples, FL



The Prince
Marco Island, FL



Dupont Facility
Wilmington, DE



Saks 5th Ave
New York, NY



WTC Tower 4
New York, NY



299 Park Ave
New York, NY



Christie St.
New York, NY

Who Belco Is For

We are experts in underground and building system pipe restoration service, PIP/ Structural Lining and spray systems for extremely small diameter pipes.

Our state of the art green building restoration technologies restore pipe from as small as 1¼ inch up to as large as 72 inches in diameter, up to 1,000 feet at a time.

Our solutions are extremely efficient, saving time, money and the aggravation associated with traditional pipe replacement.



- High & low rise buildings
- Office complexes & office towers
- Condominiums & co-ops
- Hospitals
- Government offices
- Universities & schools
- Municipalities
- Gated/assisted living communities
- Airports
- Vertical and horizontal piping
- Potable/sanitary water systems
- Fire suppression
- Sprinkler systems
- Underground sanitation systems
- HVAC

Problems Experienced By Aging Pipes

Don't wait until it's too late. Your pipes are almost certainly older than you may think they are. There are numerous problems associated with aging pipes, and some of those may even turn into dangerous safety hazards. Seemingly minor problems (or ones that you might not even be aware of) can quickly escalate into major issues. Infrastructural replacement at that point becomes extremely expensive and time sensitive. It may even be impossible.

Belco Pipe Restoration can help diagnose current as well as impending problems, and more importantly, is able to easily and cheaply fix them, often in a matter of days.

Some problems that your aging pipes may already have include, but are not limited to:

- Corrosion
- Leaching of lead from corroded joints
- Chronic Scaling
- Joint leaks
- Pin-holing
- Water quality deterioration
- Flow deterioration



The Belco Pipe Restoration Difference



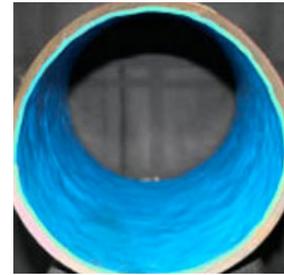
Before

Close up of a six-inch pipe, severely corroded, tuberculated and influenced by MIC



During

The same six-inch pipe, post abrasive media cleaning with a conical spray head to a near-white metal finish



After

Restored six-inch pipe, leak tested, with a NFS 61, UL certified epoxy lining

Our Pipelining Process



1. Pipe System Diagnosis

- Map system
- Utilize computerized pipe video surveillance to inspect and digitally record findings
- Review findings with property management
- Diagnose and identify restoration plan



2. Pipe Repair/Replacement

- Repair or replace damaged pipe sections
- Flushing & drying
- Tuberculation removal
- Grit blasting



3. Abrasive Cleaning

- Abrasive cleaning with conical spray head to near-white metal finish
(as specified by manufacturer)
- Pipe is now in a good state of repair



4. Epoxy Lining and Reassembly

- Pipe's state of good repair enhanced with epoxy lining
- Extends life of repaired or replaced pipe
- Prevents corrosion and biological buildup
- Enhances flow capacity
- Dampens vibration



5. Final Inspection & System Testing

- TV inspection
- Epoxy inspection of pipe lining for thickness and need for coating repair
- Hydrostatic pressure testing
- Leakage pressure testing
- Bacteriological disinfection
- Leaching test
- Restoration of system

Benefits of Belco Pipe Restoration

- Protects pipe against future corrosion
- Extends service life of system piping and components
- Significantly enhances current water and air quality while protecting against future degradation and corrosion
- Reduces frequency of maintenance and decreases overall annual maintenance costs and system down-time
- Coatings eliminate the leaching of lead from the soldered joints, and the corrosion of copper and steel pipe
- Enhances flow capacity and system efficiency
- The epoxy product used to coat water distribution system is a two component 100% solid epoxy system meeting or exceeding ANSI/NSF 61 standards
- Zero VOC material with certified zero fish kill
- Fully Structural NSF-61 Coating
- No reinstatements needed for service laterials
- Refined application of coating thickness
- CPU interval/TV inspections navigates easily through bends
- Because our material bonds with the piping system, it seals existing cracks and prevents further ones forming
- Coating elasticity means our materials are flexible; they move with your pipes, abating leaks caused by settlement
- Mitigates municipal road and sidewalk tear-ups and other lengthy disruptions associated with water main replacement
- Belco's solutions work on a wide variety of piping materials, including but not limited to:
 - Copper
 - Brass
 - Galvanized
 - Cement
 - Concrete
 - Steel
 - Cast Iron
 - Black Iron Steel
 - Ductile Iron

1. Public Works Technical Bulletin 420-49-35, US Army Corps of Engineers, 15 June 2001
2. Permeation and Leaching, US EPA Office of Ground Water and Drinking Water, 15 August 2002
3. Impact of Epoxy Pipe Lining Material on Distribution System Water Quality, Virginia Tech Polytechnic Institutue, Ryan Pierce, May 2009
4. Inside and Out:: Benefits of Pipeline Coating, Pipelines International, December 2010

Coatings Specification Details

	Belco	ASTM F-1743	Variance	%
Tensile Strength	7,000	3,000	4,000	133%
Flexural Strength	11,000	4,500	6,500	144%
Compressive Strength	12,000	Not listed	12,000	∞
Flexural Modulus	500,000	250,000	250,000	100%

AWWA M-28 Standards for rehabilitation of water mains. This specifies ASTM F-1743 as the class 4 Structural lining standard.

ASME PCC-2 Design considerations for buried pipe test standards were utilized and documented by Madero Engineering, Houston, TX. Certified wall thickness for our lining material for partially deteriorated pipe to resist both internal and external loads.

ASTM F1216 Standard practice for rehabilitation of existing pipeline standards were utilized and documented by Madero Engineering, Houston, TX. Certified wall thickness of our material comply with this standard.

“the ultimate capacity of all specimens exceeds 400 psi hydrostatic pressure”

– Kent Harries, Ph.D., FACI, P.Eng.

Associate Professor of Structural Engineering and Mechanics University of Pittsburgh.

Don't let lead happen to you!



It is your responsibility to prevent lead leaching from for your aging potable water infrastructure. You can even be held criminally liable for failure to do so. Over time, tuberculation and corrosion can cause toxic heavy metals, such as lead, to leach into the otherwise pure drinking water provided to your constituents. In addition to discoloration, these metals are highly poisonous, and can lead to birth defects and permanent central nervous system damage. If your pipes are older than a few years, they may already be tainting the drinking water you consume every day with these extremely toxic chemicals.

Belco Pipe Restoration offers the perfect solution for all your potable water problems. A much cheaper and faster alternative to pipe replacement, our trenchless pipe rehabilitation offers you the convenience of disturbance-free maintenance. Our epoxy linings are NSF 61 approved, which means that they're approved to come into contact with potable water. Belco pipe lining applications are precision-engineered to provide a barrier coating which eliminates the water to metal contact and provides a long term solution to many problems plaguing our aging water infrastructure.

Belco's Potable Water Linings do all of the following:



Eliminates the leaching of lead from the soldered joints, and the corrosion of copper and steel pipe



Protects pipe against future corrosion



Reduces frequency of maintenance and decreases overall annual costs and system down-time



Extends service life of system piping & components



Significantly enhances water and air quality and protects against future degradation



Enhances flow capacity and system efficiency

Methods of Application

Belco Pipe Restoration is an industry leader in terms of expertise. We are able to select precisely which application method is suitable to your particular needs, and develop novel solutions for difficult problems other companies cannot solve.

Belco Spray In Place Pipe (SIPP)

SIPP is a new technology using robotic pipe lining systems for installing impenetrable liners in In-Situ Pipes, saving time and money in deterioration and replacement costs. A robotic lining process for the rehabilitation of in place or In-Situ pipelines which meets or exceeds the pipe's original design parameters.

SIPP repairs process service work using a centrifugal dispersing apparatus to robotically build new pipe walls where the existing ones have deteriorated. State of the art robotic design results in the most versatile and environmentally friendly pipe lining process available.

Belco Cured In Place Pipe (CIPP)

BELCO's patented Pipe in Place technology (also known as PIP, Cured in Place or Pull in Place) allows underground pipes to be restored without expensive and disruptive excavation.

Pipes from 1 inch to over 6 feet in diameter are rehabilitated with an epoxy lining that is cured in place to form a seal inside the pipe. This lining method provides the ability to line multiple 45° and 90° angles, as well as the option of lining specific sections of pipe without lining the entire length.

Pipe in Place has saved billions of dollars worldwide. It is trenchless, fast, effective, and long-lasting. No traffic disruptions and risk, no open trenches, and minimal discomfort for communities and businesses.

Belco Forced Air Epoxy

BELCO's forced air epoxy pipe lining technology is the most effective restoration solution for pipes 2 inches or smaller. Our method of application completely coats the inside of any piping system, correcting problems and preventing future leaks while protecting you from lead and other contaminants leached from piping into drinking water.

Belco Equipment

Belco Pipe Restoration uses only the most sophisticated, advanced technology available on the planet. We are constantly updating our equipment, but below is a representative sample of some of our cutting-edge machinery.



Belco Conical Plural Epoxy Spray Head

- Attached stainless steel guide sleds are adjustable
- Our inventory includes multiple sets of heads and sleds for centrifugal force
- Applications ranging from 1¼" to 72"



Belco VLM 90 Plural Epoxy Application Machine

- Up to 500 feet at a time can be lined
- Designed for vertical piping systems and systems with multiple bends
- Features a heated, computerized mixing station
- Precision epoxy application restores water systems without disturbing encapsulated columns
- Mobile; 32" x 50" fits into standard freight elevators
- Computerized monitoring system details and records time, distance, metering pump pressures, flow rates, winch speed, application thickness and mix ratios



Belco 459 Underground Lining Rig

- Up to 1,000 feet at a time can be lined
- Allows for water mains to be restored without ripping up streets
- Capable of applying multiple products
- System includes high pressure heaters for the epoxy mixing station as well as heated water for the umbilical cord for precise delivery of epoxy
- Computerized monitoring system details and records time, distance, metering pump pressures, flow rates, winch speed, application thickness and mix ratios

A background image of water splashing, with a large green circle and a smaller blue circle overlaid. The text is centered within the blue circle.

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