

# PICOTE BRUSH COATING™

## CASE STUDIES

### NASA, Florida, USA (March 2019)

---

Installation of 5 coats of Picote's Dual Color 100% Solids Epoxy in an 8" (DN200) potable water supply line that was installed in the 1960's. The Maxi Coating Pump was used.

**Benefit:** Due to the location of the pipe, excavation would have been extremely costly and difficult. The Picote Brush Coating™ System provided a fast and easy renovation while the facility maintained access to the road above.

### Water Fountain, Columbia, South Carolina, USA (May 2018)

---

A large fountain experienced losing water pressure. Sand was found in the pipe but no major breaks were present. An 8" (DN200) return line for the fountain was coated with the Picote Maxi Coating Pump.

**Benefit:** The Maxi Coating Pump allowed for a longer application run that was also faster in applying the 5 coats of resin. Water pressure was fully restored to the fountain which other wise would have been risky with traditional replacement because of the intricate piping system in the fountain.

### Housing Complex, Seattle, Washington, USA (March 2018)

---

Coated 40+ units in a housing complex, including kitchen drains and laundry lines that were 30ft (9m) with multiple bends. Pipes sizes ranged from 2-4" (DN50-100). Many of the pipes were found to have the bottom missing in several sections mainly in the 2" (DN50) kitchen drain lines. The authority opted to have these areas filled with epoxy and then coated over. The missing sections were not even noticeable after coating.

**Benefit:** Complete destruction of the newly remodeled kitchens was not necessary to access piping. The piping was cleaned, voids filled, and pipes were completely coated creating a new longer lasting pipe

### Water Treatment Plant, Indonesia (March 2018)

---

Coating pipes with a Mini Coating Pump at a water treatment plant in Indonesia. Repaired several cooling pipes for power plant turbines. There were 4 turbines in total. Pipe sizes ranged from 2-4" (DN50-100). Coating was executed one turbine at a time.

**Benefit:** Brush coating proved to be much faster than other trenchless options allowing a setup better for working with bends in small diameter pipes and a seamless solution for piping with a large number of junctions.

### Large Dam, Yankton, South Dakota, USA (October 2017)

---

Coating 144' (43m) of 4" (DN100) pipes in utility building with the Maxi Coating Pump. Traditional replacement was not a choice because of the existing infrastructure. Pipe was located in utility area of the dam and was used to supply potable water. CIPP would have been difficult because of several closely spaced bends.

**Benefit:** Pipes were descaled and restored to work properly with two layers of epoxy coating.

### Large Hospital, Chicago, Illinois, USA (July 2017)

---

Holy Cross Hospital was experiencing major leaks in the 10" (DN200) supply and return piping for their cooling system. The piping ran between two buildings under a very busy roadway for all emergency vehicle traffic for the hospital. The system was losing its 30% glycol mixed water into the ground and was not able to maintain enough pressure to operate properly. A visual inspection was completed and no obvious leaks were located. The piping segment was approximately 250' (76m) long and had several 90° bends which made traditional rehabilitation methods very difficult. The Picote Maxi Miller Coating Pump was chosen to seal the system.

**Benefit:** Stopped all leaking from the pipes and the system passed a pressure test before being returned to operation.

### Nuclear Plant, Washington, USA (2017)

---

Coated 140' (42m) of 4" (DN100) cast iron waste line in a nuclear facility to seal waste piping to ensure no waste was leeching into the ground causing contamination of surrounding soil. Lead joints in the pipe had failed over time and were starting to cause leak and causes problems.

**Benefit:** Sealed off exfiltration from the line and filled in failed joints.

### Office Building, Chicago Suburb, Illinois, USA (2017)

---

All drains and sewers from 2-4" (DN50-100) were coated, including branch lines. The badly deteriorated lines were flooding the units. Due to poor access, CIPP would have been extremely difficult and traditional replacement would have meant major property damage. Three coats were applied on all lines sealing the pipe leaks entirely.

**Benefit:** All stack and branch lines were renovated seamlessly.

### Resort, Phoenix, Arizona, USA (2017)

---

Coated 1¼" (DN32) swimming pool line with three coats of epoxy, including pool skimmers and discharge lines. Sealed leaking skimmers that were badly cracked. Contractor was able to avoid breaking up pool deck at each skimmer for replacement.

**Benefit:** Epoxy suitable for heavily chlorinated water and saved costly demo of pool decking.

### Office Campus, Chicago, Illinois, USA (2017)

---

A large campus for a major insurance company was experiencing reduced flow in their 8" (DN200) fire suppression main due to heavy tuberculation build up in the pipe. After cleaning, the owners wanted to seal the pipe to prevent reoccurrence of the problem. High pressure & flow requirements along with 90° bends made CIPP repair impossible.

**Benefit:** Sealed leaking and heavily corroded fire suppression main and was able to navigate multiple bends.

### Condo Building, Chicago, Illinois, USA (2016)

---

40th floor rooftop pool was leaking into the unit below which was a music studio. A Gold Coast high rise was desperate to find a solution to fix the 1¼" (DN32) through 2" (DN50) steel piping to their pool supply and return lines. It had deteriorated over the years and was leaking badly with no visible sign of failure on CCTV.

**Benefit:** The Picote Brush Coating™ system was able to navigate multiple bends, even in the smallest pipe to seal all of the pool leaks.