

# Fast Cure UV Light Pipe Lining & Floor Repair

**CUSTOMER**  
Food Manufacturing Plant

**DATE OF APPLICATION**  
December 2025

**LOCATION**  
Poughkeepsie

**SUBSTRATE**  
PVC

PROBLEM

A national food manufacturing facility experienced recurring operational disruptions caused by a deteriorated underground sanitary piping system.

The facility needed a solution that would avoid pipe replacement, as the plant's 24/7 production schedule could not tolerate the extensive downtime and necessary demolition required by traditional pipe repair and replacement methods. Mechanical Epoxy Solutions was contracted to conduct a video inspection of the sanitary system and determine the appropriate rehabilitation method.

Working within the facility's limited shutdown schedule, MES performed a detailed inspection to identify the root causes of the deposit build up and flow inefficiency. A UV-cured CIPP (Cured-In-Place-Pipe) liner was recommended to repair the sanitary piping.

### Once the solution was approved:

1. Sections of piping were identified that were suitable for CIPP lining.
2. Non-destructive cleaning was performed to clear debris and restore the pipe sections to their original internal diameter.
3. A high-strength, UV-cured CIPP liner was installed within the host pipe. The liner was rapidly hardened using controlled ultraviolet light exposure, creating a structural, corrosion-resistant liner within the existing pipe.

MES restored the facility's failing sanitary piping while avoiding extensive excavation and extended plant shutdowns.

- The UV cured system was able to be installed and cured quickly, allowing for more piping to be rehabilitated during the limited shutdown window.
- The seamless liner created a smooth internal surface, reducing deposit buildup and improving flow efficiency.
- The piping's structural integrity was restored with minimum downtime.

SOLUTION

BENEFITS



Fig. 1 Video inspection of pipe



Fig. 2 Pipe being prepared for lining

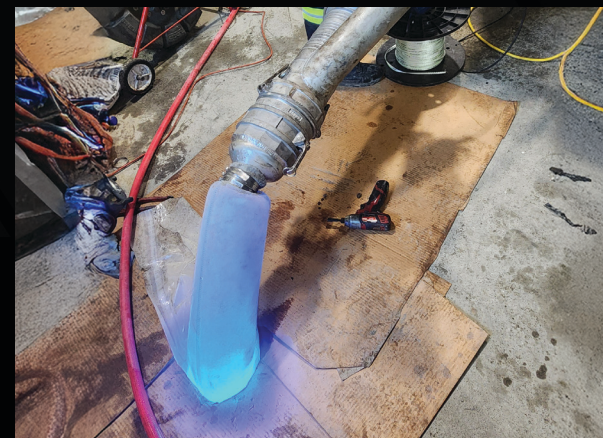


Fig. 3 UV-curing system