

SYLWRAP Case Study

Mexico Wastewater Plant Pipe Repair Programme

A wastewater plant in Mexico use the Sylmasta Pipe Refurbishment System to repair and strengthen a steel pipeline left leaking and weak in numerous places



Wrap & Seal was used to repair a leak on an elbow bend which could not be isolated



SylWrap HD reinforced the Wrap & Seal repair



Superfast Aqua PW sealed a tee-joint by filling all gaps in the connection with a rock-hard material



Liquid Metal created a new outer surface protecting and strengthening weakened areas of the pipe

Defect

A decades-long wastewater crisis and a series of pollution events has seen the upkeep of treatment facilities in Mexico come in for scrutiny and criticism.

With this in mind, the plant in Nuevo León state put into place a repair and strengthening programme for a critical 300mm steel pipeline showing signs of failure.

There were multiple areas of concern, all requiring different solutions using a range of products from the Sylmasta Pipe Refurbishment System (SPRS).

Solution

One area of the pipe which could not be isolated was weeping around an elbow. **Wrap & Seal Pipe Burst Tape** was wrapped around the elbow, fusing to form a solid rubber band containing the live leak.

SylWrap HD Pipe Repair Bandage was then applied over the tape, providing an impact-resistant protective sleeve to reinforce the repair.

A leaking tee joint was filled with **Superfast Aqua PW Epoxy Putty**, which formed a rock-hard, waterproof material sealing the gaps in the connection.

Finally, **Liquid Metal Epoxy Coating** was painted onto weakened sections. It created a new metallic outer surface strengthening the original pipe exterior.

Result

By the end of the programme, the plant had a fully refurbished pipeline with all existing leaks sealed and capable of withstanding future problems.

The SPRS has since been used by other treatment facilities as a cost-effective, straightforward way to improve Mexico's wastewater performance.