

# SYLWRAP Case Study



## Underground Steel Water Main Live Leak Repair

A 400mm carbon steel underground water main in the United Kingdom had been leaking for 15 years without a suitable repair method being found



*The split in the 400mm carbon steel water main possessed a significant challenge*

### Defect

The 400mm underground carbon steel water main had been leaking for 15 years from a split across its diameter. The main played a major role in a vital network and could not be shut off for a repair or a replacement.

The confined space meant there was no room for heavy machinery or repair clamps and only a single contractor could access the main at any one time.

### Solution

**Wrap & Seal Pipe Burst Tape** was used to double wrap 400mm from the flange up the tapered pipe. Double wrapping compensated for the lack of room to stretch the Wrap & Seal by its full 300% which could have resulted in less-effective fusion.

The tape was overwrapped with several **SylWrap 416HD Pipe Repair Bandages**. This medium-sized wrap was chosen as the limited space would have made using a larger bandage difficult.

### Result

Within an hour, the water main had permanently sealed after a decade-and-a-half of being considered unreparable. No disruption to supplies were necessary.

The contractor carrying out the repair said: "The repair was a complete success and the information Sylmasta provided greatly supported the project. We have many more leaks like this which require repair and we finally have the product we need to fix those."



*After 15 years, the burst water main was finally repaired thanks to Sylmasta*

