

SYLWRAP Case Study



Leaking Coupling Repair in Pipe Pit

Two leaking coupling joints connecting a 2 metre section of 650mm ductile iron pipe to a mains water line through a disused pipe pit undergo repair



Defect

Originally, the pit had been an inspection chamber housing a valve. Many years ago, the valve was replaced with a straight section of 2 metre pipe and the pit filled in, where it remained forgotten.

It was rediscovered by a water company during maintenance work. Soil in the pit was muddy, suggesting a leak. After excavation, the pipe was found to be in poor condition and leaking from two couplings connecting the pipe with the main line.

Each coupling was 80mm wide but rose 100mm off the pipe, creating an awkward ridge that needed to be sealed. With only 35mm clearance between the couplings and the floor of the pit, a repair method needed to be effective in tight spaces.

Solution

A polythene sheet was squeezed underneath to prevent mud and dirt being picked up during the application of **Wrap & Seal Pipe Burst Tape**.

Multiple Tapes were used and fused to each other, building up a repair over and around the couplings which sealed the leaks despite the difficult ridge.

SylWrap HD Pipe Repair Bandage was applied to encompass the couplings and the surrounding areas. 300mm wide SYL1266HD wraps provided enough coverage to mould around the couplings, fortifying both ends of the pipe before reburial.

Result

The flexibility of SylWrap enabled a repair not possible with a pipe repair clamp and was completed inside an hour. All materials used were WRAS approved, a legal requirement on a pipe connected to mains water.

Location of the 2 metre section of pipe within pit



Raised couplings created a difficult ridge shape to seal



Completed repair prior to reburial of the pipe

