

SYLWRAP Case Study

Pumping House 150mm Elbow Live Leak Repair

A water company in Malaysia make a live leak pinhole repair to a 150mm steel elbow pipe bend operating at 6 bar pressure at a pumping house



A pressurised jet of water was escaping the elbow bend at 6 bar through a pinhole left by corrosion



Wrap & Seal was stretched by 300 percent as it was wrapped around the pipe, amalgamating to itself to form a solid rubber band containing the 6 bar leak



SylWrap HD reinforced the initial repair by creating a rock-hard, impact resistant sleeve around the pipe



Repairing the elbow was completed in less than 30 minutes with no disruption to operations at the pumping house or local water supplies

Defect

Corrosion had weakened the elbow where two sections of metalwork met at a welded joint, creating a pinhole leak. Water was spraying out from the pipe, which operated at 6 bar pressure.

A repair clamp could not be fitted around the elbow. The pipe could not be taken out of service for repair or replacement either, because of its importance to the pumping house and local water supplies.

Solution

Wrap & Seal Pipe Burst Tape was applied to seal the leak. The tape was stretched by the maximum 300 percent as it was wrapped, fusing to form a solid rubber band containing the 6 bar leak.

The repair was reinforced using **SylWrap HD Pipe Repair Bandage**. SylWrap HD was wrapped and smoothed around the elbow, curing quickly to provide an impact resistant protective sleeve for the pipe.

Both products have WRAS approval, meaning they are safe to use with drinking water. The repair was completed in 30 minutes with no disruption to water supply or pumping house operations.

Result

Following this and several other successful SylWrap applications in Malaysia, a national water supplier has approved the **SylWrap Pipe Repair Contractor Case** for use on the vast Kuala Lumpur pipe network.

Each Case contains enough products to make up to 6 live leak repairs on pipes 15-300mm in diameter.

The supplier's maintenance teams are now all equipped with a Case, enabling them to fix leaks and bursts as soon as problems are identified.