

SYLWRAP Case Study

Water Treatment Plant 6 Bar Live Leak Repair

A water company in Malaysia make their first repair with a SylWrap Contractor Case, sealing a 6 bar live leak on a 300mm steel pipe at a treatment plant



Water had been escaping the 300mm steel pipe for two weeks through a 4mm hole at 6 bar pressure



Three 50mm x 11m Wrap & Seals built a repair with enough resistance to withstand 6 bar pressure, followed by reinforcement with SylWrap Bandage

Defect

The pipe had been leaking for two weeks through a 4mm hole. It could not be shutdown because of its importance to operations at the plant, leaving a steady jet of water escaping and saturating the floor.

Such a leak would normally be sealed by the water company using a clamp. The hole though was located in a welded saddle joint sitting 15mm above the original pipe, making a clamp ineffective.

Solution

Sylmasta had demonstrated and presented to the water company a week earlier during a visit to Malaysia. The water company subsequently took a supply of **SylWrap Pipe Repair Contractor Cases**.

A maintenance team trained by Sylmasta as part of the demonstration were sent to the plant with a SYL-PRO-866 Contractor Case. They sealed the live leak using **Wrap & Seal Pipe Burst Tape**.

Three 50mm x 11m Wrap & Seal were applied over the pinhole until water was no longer seeping through. This indicated the tapes had amalgamated together, building enough pressure resistance to hold 6 bar.

The repair was reinforced with a SYL866HD **SylWrap Pipe Repair Bandage** which formed a rock-hard, impact resistant shell protecting the Wrap & Seal.

Result

Completing the repair took one hour. After seeing how quick and easy a live leak repair is for a maintenance team with a Contractor Case, the water company are already planning to expand its use.

All the products in the Case have WRAS approval, meaning they are certified as safe for drinking water.