

# SYLWRAP Case Study



## Bahrain Airport Leaking Step Joint Repair

Bahrain International Airport required a live leak repair method for a step joint on a 100mm UPVC pipe so that a shutdown of systems could be avoided



*The pipe was leaking from the left hand side of the joint with the application of Wrap & Seal starting 100mm away to build up a ridge towards the step*

### Defect

Solvent cement bonds holding the pipe together had begun to weaken, allowing water to seep out through a step joint connecting two sections.

The pipe could not be shut off for a repair or replacement because of the importance of the system it supported, ruling out the usual repair method for such an application of epoxy putty.

### Solution

As this was a live leak, **Wrap & Seal Pipe Burst Tape** had to be used. To create a repair capable of sealing the step, wrapping began some 100mm away from the joint with a 50% overlay.

After reaching the step, layers of Tape were built up next to it, creating a ridge. Once the ridge was level height with the step, wrapping continued for 50mm across the step, encompassing the whole joint.

Two 50mm x 4m Tapes were required to completely seal the leak, self-fusing to each other to form a solid rubber band.

A **SylWrap HD Pipe Repair Bandage** was then wrapped over the entire repair, providing an impact resistant, protective shell.

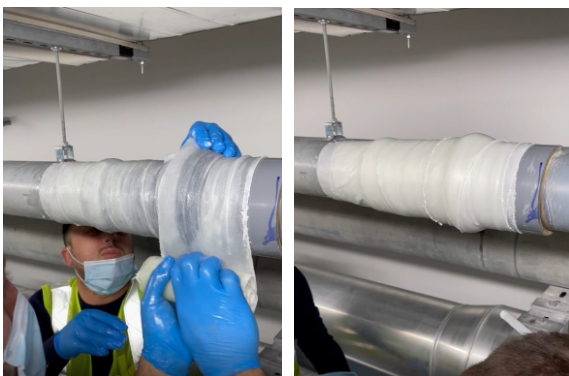
### Result

The repair took under 30 minutes whilst the system remained operational. The products were supplied in a **SYL-PRO-633 Pipe Repair Contractor Case**.

Following the success of the repair, the airport have gone onto use Contractor Cases to fix 150mm and 200mm pipes suffering from similar problems.



*Once the ridge reached level height with the step, wrapping continued to encompass the joint*



*SylWrap HD provided a rock hard, protective sleeve to complete the repair*

