

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