

SYLWRAP Case Study

Live Leak Pipe Repairs on Libya Water Network

Above and below ground water pipes servicing a town in Libya undergo live leak repair to seal cracks through which high levels of water were escaping



Significant levels of water were escaping the above-ground section of pipe at 5 bar pressure from a longitudinal split

Defect

The 100mm pipes were part of the network supplying water to the town of Brega, operating at 5 bar.

An underground section was first identified as leaking through visible signs in earth surrounding the pipe. This leak was initially ignored because a repair or replacement was considered too difficult.

When a longitudinal split then developed in an above-ground pipe, a blind eye could no longer be turned to problems on the network. It was decided to find a way to repair both pipes.



The above-ground section was successfully sealed using Wrap & Seal and then further protected with SylWrap HD Pipe Repair Bandage

Solution

The importance of the network meant pressure could not be isolated, so live leak repairs were made.

For the above-ground pipe, **Wrap & Seal Pipe Burst Tape** was wrapped along the length of the split.

Multiple Tapes were applied over each other until no water was leaking, indicating the repair had reached 5 bar pressure resistance. A **SylWrap HD Pipe Repair Bandage** was then applied to protect the Tape.



A trench was dug with enough clearance to reach the below-ground section of pipe. It was then repaired using Wrap & Seal and SylWrap HD Bandage

A trench was dug to reach the below-ground section with enough clearance to wrap both Wrap & Seal and SylWrap around the pipe. The small crack in the pipe was easily arrested.

Result

Each repair took under 30 minutes to complete with no disruption to homes and businesses in Brega.

In a dry country like Libya where every drop of water is precious, the speed with which a **SylWrap Pipe Repair Kit** seals leaks can make a huge difference.