

SYLWRAP Case Study

Lead Pipe Leaking Inside House Wall Repair

A homeowner in the United Kingdom accesses and makes a DIY repair to a vertical 25mm diameter lead water pipe leaking inside the wall of their house



After cutting away the drywall, the homeowner found a leaking vertical 25mm lead water pipe

Defect

Discolouration appeared on a white wall close to a window during winter. The homeowner initially put it down to condensation and damp from the window.

But when summer arrived and the wall remained wet, they suspected a leak. The drywall was removed to access the cavity, where they found a 25mm lead pipe running vertically which was weeping water.

Long-term, the homeowner wanted to replace the pipe because of the health risks posed by lead. Whilst waiting for that to happen, they needed to seal the leak to prevent further water damage to the property.

Solution

Although the pipe could be isolated, the normal no pressure repair method of epoxy putty struggles to adhere to the soft and oxidised surface of lead.

Wrap & Seal Pipe Burst Tape was instead used because it bonds to itself more than the substrate.

Despite the space constraints, the tape could still be stretched by three times its length as it was wrapped. This enabled it to form a solid rubber band, exerting pressure over the leak to contain pipe content.

The repair was then overwrapped with **SylWrap HD Pipe Repair Bandage**, which provided a rock-hard, impact resistant protective sleeve around the pipe.

Result

Completing the repair took under 20 minutes. Water supply to the house was turned back on afterwards and the pipe inspected regularly for the next two days.

With no signs of any leakage and the pipe remaining bone dry, the repair had been a success.



Despite the space constraints in the wall, the pipe was repaired using Wrap & Seal and SylWrap HD