

SYLWRAP Case Study

Cracked 90-year-old Malleable Iron Pipe Repair

With replacement fittings no longer made for a cracked 90-year-old pipe, a property owner sought a repair to avoid digging out their water supply line



The larger crack in the malleable iron water supply pipe and several smaller holes surrounding the damage area



Completed repair wrapped in a SylWrap HD Pipe Repair Bandage before being re-buried



The materials in the SylWrap Standard Pipe Repair Kit are all WRAS approved, meaning they are certified to British standards as safe to use with drinking water - a vital consideration for a water supply pipe

Defect

The 70mm malleable iron pipe connected the property to the public water supply. Excavation of the pipe revealed an awkward, number-9 shaped crack and several smaller holes.

The age of the pipe meant replacement fittings were no longer manufactured. The cracks and holes had to either be repaired, or the entire section would have to be dug out and replaced at considerable cost.

Solution

Pressure could be isolated so a **SylWrap Standard Pipe Repair Kit** was suitable for the application.

Small amounts of **Superfast Steel Epoxy Putty Stick** were kneaded by hand and pushed into the smaller holes.

For the large crack, Superfast Steel was formed into a disc shape larger than the crack. The disc was stretched over the entire damage area and the edges pushed down, forming a good seal with the surface of the pipe.

Once the putty had become firmer but not fully cured, a **SylWrap HD Pipe Repair Bandage** was wrapped around the repair, compressing the putty into any remaining gaps before curing to form an impact resistant protective sleeve.

Result

Once the application was completed, the pipe was turned back on. No leaks were present and the pipe was re-buried.

The repair cost less than £25 and the property owner described it as going “fantastically well”.

