

SYLWRAP Case Study



90-Year-Old Malleable Iron Water Pipe Repair

With replacement fittings no longer made for a 90-year-old water supply pipe, a homeowner needed a repair method to avoid digging out and replacing the line

Defect

The 70mm malleable iron pipe connected the domestic property to the public water supply. After it was identified as leaking, excavation of the pipe revealed an awkward, number-9 shaped crack alongside several smaller holes.

Because the pipe was so old, replacement fittings were no longer manufactured. If the leaks could not be sealed, the entire section would have to be dug out and replaced.

Solution

Pressure could be isolated, so a **SylWrap Standard Pipe Repair Kit** was used. For the smaller holes, little chunks of **Superfast Steel Epoxy Putty** were kneaded by hand and applied to seal all leaks.

A large disc of Superfast Steel was formed to completely cover the number-9 shaped crack. This epoxy putty disc was stretched over the entire crack 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, **SylWrap HD Pipe Repair Bandage** was wrapped over the repair area. It compressed the putty into any remaining gaps before curing to form an impact resistant protective sleeve around the pipe.

Result

When pressure was turned back on, no leaks were found and the pipe was re-buried. The homeowner said the repair went “fantastically well”, was pleased with how straightforward it was and delighted with the significant cost saving compared to replacement.