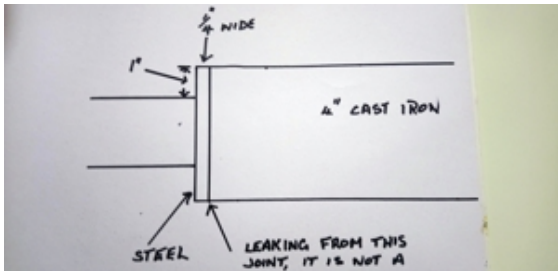


SYLWRAP Case Study



Welded Joint Leak Repair & Encapsulation

A church central heating system was leaking at the point a 100mm iron pipe stepped down to a 50mm steel pipe via a welded plate, requiring a repair method which could seal multiple leaks across both pipes and at the joint



Repair diagram, showing the 50mm steel pipe, the 100mm cast iron pipe and the welded joint via plate

Defect

Corrosion had caused ruptures to the 100mm iron pipe where it was attached to the plate. More challenging were leaks caused by uneven welding near where the 50mm steel pipe was welded to the plate, whilst a threaded section of pipe close by was also leaking.

Confined space around the pipe meant a repair clamp could not be fitted. Initial attempts to weld the pipe had caused further leakage and left an even more uneven pipe surface to be sealed.

Solution

Wrap & Seal Pipe Pipe Burst Tape was used to seal the first leak on the 100mm pipe. This was reinforced with **SylWrap HD** to protect the repair.

The 50mm pipe and the welded joint were sealed with **Sylmasta AB Original Epoxy Putty**. AB Original was used as its longer working time allowed a more thorough application of putty across the significant section of damage before curing.

AB Original encapsulated the whole section where the 100mm pipe, the 50mm pipe, and the steel plate had been welded together, filling in any imperfections and sealing all leaks.

Result

Finding an effective repair method had proven so challenging that the church initially contacted Sylmasta simply seeking a temporary fix until they could afford to replace the damaged sections.

Instead, Sylmasta provided a permanent repair made at a fraction of the cost of replacement.



Corrosion to the 100mm pipe at the steel plate



The completed repair with the pipe encompassed with Sylmasta AB Original

