SYLWRAP Case Study

Hospital Repairs Cast Iron Waste Pipe U-Bend

From the top of a ladder, a hospital maintenance worker seals a hairline crack in a cast iron waste pipe U-bend within a cramped space above a corridor

The cracked U-bend was in a roof space above a corridor with the repair made from the top of a ladder

A hairline crack was found in the cast iron U-bend, through which wastewater was leaking

After the leak was sealed with CrackSeal, the U-bend was successfully cocooned with SylWrap HD despite the lack of space and difficult pipe geometry

Defect

Damp patches were noticed in ceiling tiles above a corridor. A maintenance worker accessed the roof space via a ladder, finding a complex pipe network.

One cast iron waste pipe came down through the ceiling, into a U-bend followed by a 90-degree elbow before connecting with two other pipes via a Y-joint.

A hairline crack was found across the U-bend, through which wastewater was leaking. To replace the cracked U-bend, every pipe connected to it - including the Y-joint - needed removal to gain enough access.

Solution

Unable to afford taking the entire system out of operation, the cash-strapped NHS trust responsible for the hospital researched alternatives - leading them to the **SylWrap Drain & Waste Pipe Repair Kit.**

From the kit, **CrackSeal Pipe Sealant** was extruded directly into the crack using a standard sealant gun. It hardened almost instantly, forming a skin within 10 minutes to leave the pipe fully sealed.

SylWrap HD Pipe Repair Bandage was then applied for reinforcement. Despite the difficult geometry of the U-bend, SylWrap HD was wrapped around to cocoon the entire repair area with a rock-hard sleeve.

Result

A single maintenance worker completed the repair from the top of the ladder in under 15 minutes; a far cry from dismantling and replacing the system.

The Drain & Waste Kit contains enough products to seal multiple cast iron and plastic pipes, meaning the hospital now have a repair solution on-site and ready to use as soon as future leaks are discovered.

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