

# SYLWRAP Case Study

## 80mm Hole Sealed in Cast Iron Drain Pipe

An 80mm diameter hole found in a cast iron drain pipe connected to a hospital bathroom undergoes instant repair, leaving the facility closed for just 15 minutes



*Corrosion caused an 80mm diameter hole to appear in the cast iron drain pipe which ran horizontally through a roof space in the hospital*



*When the bathroom which the pipe was connected to was used, a strong stream of wastewater poured through the hole and into the roof space*



*SylWrap HD was applied covering a 300mm section of the pipe, either side of the hole which was sealed using Superfast Steel Epoxy Putty*

### Defect

The pipe ran horizontally in a roof space between two floors. It connected to a bathroom used by multiple wards, handling wastewater from showers and sinks.

Corrosion created an 80mm hole in the pipe, through which wastewater expelled from the bathroom was now pouring out. This was causing damage inside the roof space and posed a health risk.

### Solution

The hospital maintenance team kept a **SylWrap Drain & Waste Pipe Repair Kit** on-site, which was retrieved as soon as the leak was discovered.

**Superfast Steel Epoxy Putty** was mixed by hand to form a 110mm disc. The disc was positioned over the hole and pushed firmly onto the pipe, with its edges smoothed off to form a strong bond with the surface.

Before Superfast Steel fully hardened, **SylWrap HD Pipe Bandage** was applied over the top. As it was wrapped around the pipe, SylWrap HD forced the putty further into the hole for a more effective seal.

The bandage then cured to provide an impact resistant sleeve, reinforcing and strengthening a 300mm section of pipe with the hole at its centre.

### Result

Had a Drain & Waste Kit not been ready-to-use for an immediate repair, the bathroom would have needed to be closed until a pipe repair or replacement could take place.

Instead, the bathroom was shut for just 15 minutes. Disruption to the hospital was limited, whilst the repair also represented a cost-effective solution at a time when NHS budgets are stretched to the limit.