

# Belzona Solution for Tricky Pipe Penetration

ID: 6410

**Industry:** Buildings & Structures  
**Application:** GSS-Gaskets, Seals and Shims  
**Substrate:** Concrete, Cast Iron  
**Products:** \* Belzona 2211 (MP Hi-Build Elastomer) ,  
\* Belzona 2911 (Elastomer QD Conditioner) ,  
\* Belzona 9341 (Reinforcement Tape) ,

**Customer Location:** Tennessee, USA  
**Application Date:** September 2016

## Problem

The pipe penetration is in a basement wall above the suspended ceiling. The exterior of the wall is under 10 feet of earth and concrete so the customer needed a way to solve the leak from the inside of the wall. They also needed a solution that would work with multiple substrates.



## Photograph Descriptions

\* 1) Leaking pipe penetration with remnants of previous repair attempts using caulk and plaster 2) Pipe and concrete cleaned and ready for conditioning 3) Conditioned area ready for application of Belzona 2211, a foam filler was used as a backer in the area between the wall and the pipe 4) Application complete with a flexible two layer "boot" that is seamlessly adhered to the pipe and wall ,

## Application Situation

Pipe penetration was allowing rain water to leak through the wall into workspaces at a local hospital.

## Application Method

Application was carried out using knowledge gained from Belzona System Leaflets GSS-3 and RPA-8. Application area was cleaned using a bristle blaster and concrete grinding disc. A foam filler was applied between the pipe and the wall to act as a backer during the application. Area was conditioned with Belzona 2911 and edges were taped to keep the application within the conditioned area. Belzona 2211 with embedded Belzona 9341 was applied as the first layer and tape was removed. Approximately 90 minutes later the edges were re-taped and a second layer of Belzona 2211 was applied to complete the repair.

## Belzona Facts

Previous attempts to stop the leak had not worked. They needed a permanent solution that would allow for movement between the pipe and wall and bond to both. Belzona 100% solids material were a perfect solution. Belzona 2211 has excellent adhesion to many substrates and maintains its flexible properties after cure, allowing for a flexible "boot" that is firmly adhered in a seamless

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ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

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membrane from the wall, over the gap, and onto the pipe.

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