# BELZONA REPLACES MECHANICAL MOVEMENT JOINTS

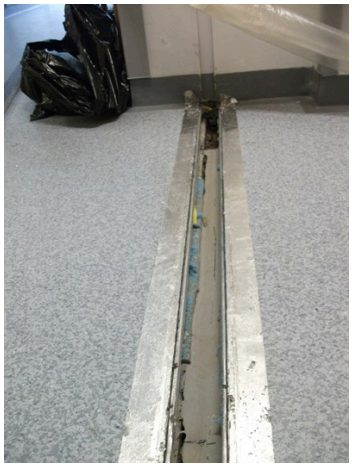
*ID: 4679*

Industry: *Buildings & Structures*
Application: *FPA-Floor Problem Areas*
Substrate: *Concrete*
Products: ** Belzona 2221 (MP Fluid Elastomer) ,*

Customer Location: *Hospital, Newcastle Upon Tyne, UK*
Application Date: *September, 2013*

Problem

*The new building was built approx. 3 years ago and mechanical movement joints were installed throughout the building. Over the 3 year period there has been a lot of movement within the building resulting in the gap on the joints increasing to the extent that they are now failing and allowing cleaning detergents to bye-pas the sealing "O" Rings on the joints and to leak into the rooms below, some of which are operating theatres.*



## Photograph Descriptions

* Diagram of the original mechanical joint ,
* Sliding components of expansion joint removed ,
* Aluminium spacer bar being fitted in centre of the joint ,
* Finished expansion joint ,

## Application Situation

Mechanical movement joints in floor of Hospital

## Application Method

Application was carried out in accordance with Belzona System leaflet FPA-6. The existing sliding components of the joint were removed from the fixed shoulder of the joint. These were prepared using the MBX Bristle Blaster. The 2 edges of an aluminium spacer bar (19mm W x 38mm H)were also prepared. After centerng the spacer bar the Belzona 2221 system was applied to either

side of the spacer bar to create a sealed expansion joint.

## Belzona Facts

The original joint manufacturer were unable to resolve the problem so the principle contractor approached Belzona and came up with this simple solution to the leaking joints, saving the contractor large financial penalties.



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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