

BELZONA REPLACES MECHANICAL MOVEMENT JOINTS

ID: 4679



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 by-pass the sealing "O" Rings on the joints and to leak into the rooms below, some of which are operating theatres.

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 centering 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.

INDUSTRY

Buildings & Structures

LOCATION

Hospital, Newcastle Upon Tyne, UK

APPLICATION DATE

September, 2013

PRODUCTS

Belzona 2221 (MP Fluid Elastomer)

SUBSTRATE

Concrete

PHOTOS

1. Diagram of the original mechanical joint
2. Sliding components of expansion joint removed
3. Aluminium spacer bar being fitted in centre of the joint
4. Finished expansion joint

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

Belzona products are manufactured under an ISO 9001 Registered Quality Management System.

www.belzona.com

