

Expansion joint improved to save damage to Fork Lifts

ID: 9871

Industry: Buildings & Structures

Customer Location: Doncaster

Application: FPA-Floor Problem Areas

Application Date: January 2025

Substrate: Carbon steel

Products: Belzona 2211 (MP Hi-Build Elastomer), Belzona 2911 (Elastomer QD Conditioner)

Problem

The standard Poly-sulphide joint repair materials had disintegrated and been lost over time, leaving a wide gap between the concrete slabs of a warehouse floor.

Very slowly, the slabs were still shrinking, leaving a gap which was very gradually increasing in size.

It was noticed that repair costs to Forklifts, wheels, bearing, brakes and other transmission parts were drastically increasing. It was decided to trial a Belzona application to the Expansion Joints to find a more durable and long lasting method



Joint taped and the application of Belzona 2911 Conditioner



Pouring in the Belzona 2211 Hi-Build Elastomer



Expansion joint filled and tape removed



Trial Joint almost 12 months later

Application Situation

The costs generated by damaged fork lift trucks were spiraling out of control. A trusted contractor to Wincanton, who also dealt with Belzona, offered to trial the jointing method using the highly durable elastomer products that Belzona had to offer. The works are still being trialed and, after a a period of testing, it is expected that there will be over 10km of joints to be carried out using the same spec and application methods

Application Method

Rake out all existing foams and other substances.

Vacuum joint to remove dust and debris

Install foam backer rod to a depth that of half the width of the joint

Apply Belzona 2911 conditioner as per spec

Mix and pour Belzona 2211 Hi-build to complete the finished application

Allow to cure

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

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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Repair • Protect • Improve

Belzona Facts

Fork Lift repair and maintenance costs are expected to reduce drastically, thanks to the Belzona application. Almost 1 year on, the joint has held perfectly well. The company are now considering carrying out the same repair to a further 4km+

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