

# Belzona Saves Automated Equipment Repairs by Rebuilding Expansion Joints

ID: 9719

Industry: Commercial Facilities  
Application: FPA-Floor Problem Areas  
Substrate: Concrete  
Products: Belzona 4511 (Magma-Flex Hi-Build), Belzona 4911 (Magma TX Conditioner)

Customer Location: Detroit, MI  
Application Date: February 2023

## Problem

The 900,000-square-foot distribution center faced escalating maintenance costs as automated picking equipment endured constant wear from damaged expansion joints, creating uneven surfaces that led to bearing and other mechanical damage.



Close up of the damaged expansion joint. Most of the facility's expansion joints resembled this.



Area was prepped and taped off for a clean application



This "smooth ride" expansion joint will provide decades of service and minimize damage to the facility's equipment.

## Application Situation

Downtime costs in a 24 hour distribution facility are high so when this customer was looking for a solution to their failing expansion joints they turned to Belzona. These joints were fixed in 60 foot sections so as to minimize service disruptions. Surface prep was completed in the morning, the Belzona system was installed in the early afternoon and the area was returned to service the next day.

## Application Method

The damaged expansion joint was saw-cut, and the concrete surface was prepared using an MBX Bristle Blaster. After taping off the area, Belzona 4911 (TX Conditioner) was applied to the substrate with a stippling technique. Belzona 4511 (Magma-Flex Hi-Build) was then mixed and installed as per the Instructions for Use. The tape was removed, and the area was ready for service the following day.

## Belzona Facts

Belzona is used extensively by this distribution center operator because of its reliability and quick turnaround.

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

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