

# BELZONA EXPANSION JOINT REPAIR HELPS A COAL MINE STAY ENVIRONMENTALLY COMPLIANT

ID: 7688

Industry: Mining & Quarrying  
Application: FPA-Floor Problem Areas  
Substrate: Concrete  
Products: \* Belzona 2211 (MP Hi-Build Elastomer) ,  
\* Belzona 2911 (Elastomer QD Conditioner) ,  
\* Belzona 4131 (Magma-Screed) ,  
\* Belzona 4911 (Magma TX Conditioner) ,

Customer Location: Coal terminal, Alabama, USA  
Application Date: 2017

## Problem

The existing rubber expansion joint material failed to stop coal from falling through the concrete dock and into the Bay waters, causing a potential environmental hazard.



## Photograph Descriptions

\* 1. Removal of nosing and damaged concrete. 2. Concrete restoration of Belzona 4131. 3. Backer rod inserted prior to an application of Belzona 2211. 4. Expansion joint repair complete. ,

## Application Situation

Expansion joints of a concrete dock.

## Application Method

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

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The repair area was pressure washed to remove all coal dust in and around the joint. Then, the metal nosing, all old rubber and other previously used joint materials were removed and the concrete areas were re-cleaned. Concrete areas were leveled by means of manual grinding. Belzona 4131 was used to build up the damaged concrete. Once Belzona 4131 was applied, this area was not accessible for any traffic until the following day, when Belzona 2211 was mixed and applied with the use of form boards and a backer rod.

## Belzona Facts

The application was carried out in accordance with a modified version of Belzona Know-How System Leaflet FPA-6. The Customer had used several other solutions, with no success. Originally, the Belzona Technical Consultant was called to discuss solutions for conveyor belts. During the discussion, an expansion joint repair was brought up. The Technical Consultant conducted a "trial" expansion joint repair, and upon its completion, the work on the rest of the expansion joints was conducted.

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