

## BELZONA REPAIRS 82 EXPANSION JOINTS ON A PRIMARY SETTLEMENT TANK

**CUSTOMER**  
Bedford, UK

**APPLICATION DATE**  
August 2017

**APPLICATION SITUATION**  
The customer's Primary Settlement Tank was unable to operate efficiently and the tank's arm was struggling to rotate, which could have caused further damage to the equipment.

**PROBLEM**  
Existing expansion joints had failed. The customer then tried to use a cementitious material to repair them but this also cracked and failed.

**PRODUCTS**  
Belzona 4111 (Magma-Quartz)  
Belzona 2211 (MP Hi-Build Elastomer)

**SUBSTRATE**  
Concrete

**APPLICATION METHOD**  
The nosings of the joints were rebuilt using Belzona 4111 and Belzona 2211 used as the expansion joint material. The application was carried out in accordance with Belzona System Leaflets FPA-5 and FPA-7.

**BELZONA FACTS**  
The primary settlement tanks' original concrete design failed within four years due to water ingress. Belzona materials are resistant to this type of damage and so will last for many more years to come. This was one of the clients only options to keep the equipment in operation.

- PICTURES**
1. The settlement tank.
  2. A damaged expansion joint.
  3. Nosings rebuilt using a former.
  4. Completed expansion joint.



1.



2.



3.



4.

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