

# BELZONA PROTECTS RIVER BARRAGE 12 YEARS ON

ID: 2374

Industry: Marine

Application: CEP-Centrifugal Pumps

Substrate: Concrete

Products: \* Belzona® 4911 (Magma TX Conditioner),

\* Belzona® 1341 (Supermetalglide),

Customer Location: British Waterways, Teesside, UK

Application Date: Trial September 1997. Full scale application May 1999

## Problem

The Tees Barrage was opened in 1995 with a designed life of 120 years. However, the client quickly found the rubber seals on moving gates were being damaged by the concrete walls when the barrage gates were raised and lowered. Trials were conducted for potential solutions in 1997 and only the Belzona application proved itself in practice.



## Photograph Descriptions

- \* Clear evidence of abrasion on concrete from the rubber seals in 1997 ,
- \* Completed application of Belzona® 1341 in 1999 ,
- \* Still in service over 12 years later in 2011 ,
- \* No breakdown of Belzona® 1341 on any of the 4 barrage gates spanning the Tees in 2011 ,

## Application Situation

Flood defence barrage on tidal river.

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet CEP-10.

## Belzona Facts

The full scale application only proceeded once the initial trial had proven successful. A competitor's system had also been tried but wasn't able to be applied successfully. 4 gates each had 2 arcs of Belzona® 1341 applied, totalling about 400m<sup>2</sup>. To date, the

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ISO 9001:2015

FS 695214

ISO 14001:2015

EMS 695213

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9000 Registered Quality  
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application is over 12 years old and, although each gate undergoes annual inspection, there has been no sign of any breakdown in any of these areas.

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