

## BELZONA 1212 STOPS A LIVE LEAK IN A COOLING TOWER PAN

### CUSTOMER

Manufacturing Facility, Tennessee, USA

### APPLICATION DATE

October 2016

### APPLICATION SITUATION

Leaking cooling tower for process water in a manufacturing facility.

### PROBLEM

Several live leaks in a cooling tower pan were leaking water at a rate of several gallons per hour. The Customer needed a way to stop the leaks without shutting the tower down and interrupting their manufacturing process.

### PRODUCTS

Belzona 1212/Belzona 9611

### SUBSTRATE

Galvanized steel

### APPLICATION METHOD

The application was carried out in accordance with a modified version of Belzona Know-How System Leaflet TCC-1. A plate was had been fabricated with a hole in the middle to allow water to run out and a 1/2" nut was inserted into the plate using Belzona 1212. The repair area was prepared using hand tools and a mechanical grinder and the leak was partially stemmed using Belzona 9611. The prepared area and the plate were then wet out with enough Belzona 1212 to create a good bond and the plate was pressed into place and held using a hydraulic jack. Water was allowed to run through the hole in the nut while the plate cured in place for approximately 60 minutes. The jack and support bar were then removed. A small amount of Belzona 1212 was added to the threads of a 1/2" bolt and it was screwed into place to stop the leak and finalize the repair.

### BELZONA FACTS

The customer had been unable to stop the leak themselves and a contractor had made a previous attempt that failed. The Belzona solution cost a fraction of the previous repair, but offered a long-term durability. The customer was so pleased with the results that they are considering having an immersion grade Belzona coating applied during their next scheduled shutdown.

### PICTURES

1. Leak with evidence of previous repair attempts visible.
2. Stemming the leak with Belzona 9611.
3. Plate pressed into place with Belzona 1212 and a hydraulic jack
4. Cold bonded repair complete with a final bolt in place.



1.



2.



3.



4.

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



Belzona products are manufactured under an ISO 9000 Registered Quality Management System.

UK • USA • Canada • Thailand  
[www.belzona.com](http://www.belzona.com)

