

# Belzona Supports Effluent Tank

ID: 7699

Industry: Oil & Gas  
Application: TCC-Tanks and Chemical Containment Areas  
Substrate: Concrete  
Products: \* Belzona 4141 (magma Hi-Build) ,  
\* Belzona 5811 (Immersion Grade) ,

Customer Location: Kuwait  
Application Date: February 2018

## Problem

Water ingress and weathering had caused corrosion of the reinforcement bar, leading to cracking and spalling of the concrete supports.



## Photograph Descriptions

\* Image 1 - Cracked and Spalling Concrete Image 2 - Damaged and loosely adhered concrete removed Images 3 & 4 - Concrete supports repaired and coated ,

## Application Situation

Damaged concrete supports of effluent water vessel

## Application Method

Damaged and loose concrete was removed before the surface was abraded using mechanical tools to clean and roughen the surface, and remove corrosion from the reinforcement bar. Compressed air was then used to remove dust. The surface was primed with Belzona 4911, and Belzona 4141 used to rebuild the surface to the original dimensions. For additional protection from weathering and potential spillage from the tank, 2 coats of Belzona 5811 were added to protect the vessel supports.

## Belzona Facts

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

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

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Using conventional concrete to repair the area would have required a long time frame and the construction of formers to hold the concrete in place during the curing period. The resulting repair would also have suffered the same problems as the original concrete supports. Due to the superior adhesion and protective qualities of Belzona 4141, this was the preferred solution over the conventional concrete repair. The easy rebuilding qualities and fast curing time of the Belzona solution was an added bonus for the customer.

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