

# BELZONA SEALS DILUTED ACID LEAK

ID: 7998

**Industry:** Chemical & Petrochemical  
**Application:** TCC-Tanks and Chemical Containment Areas

**Customer Location:** Spain  
**Application Date:** September 2016

**Substrate:** Carbon Steel

**Products:** \* Belzona 9611 (ES-Metal) ,  
\* Belzona 4301 (Magma CR1 Hi-Build) ,  
\* Belzona 9341 (Reinforcement Tape) ,

## Problem

A small leak had developed at the top section of the scrubber. The resulting leak dripped down onto a lower area of the surface, causing damage to the external coating and resulting in an additional leak.



## Photograph Descriptions

- \* 1. Leak caused by internal chemical attack ,
- \* 2. Damage caused by dripping acid ,
- \* 3. Surface preparation complete ,
- \* 4. Application complete ,

## Application Situation

A sulfuric acid scrubber in an acid plant subject to contact with diluted sulfuric acid.

## Application Method

Loose metal was removed with mechanical tools until the surface was clean and had a rough profile. The repair area was decontaminated with acetone. Belzona 9611 (ES-Metal) was used to seal the live leaks. The small repair areas were covered with Belzona 4301 (Magma CR1 Hi-Build) & Belzona 9341 (Reinforcement Tape). In the larger repair areas, a PVC plate was bonded on with Belzona 4301 for additional strength. The application was completed in accordance with a modified version of Belzona System

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  
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## Belzona Facts

Welding repairs would have required complete shut down, draining and decontamination of the equipment to make the area safe for hot work. With the Belzona solution, this is not required, saving a huge amount of time and inconvenience for the customer. Alternative repair materials composites were considered, however none had the chemical resistance of Belzona to resist the acidic conditions.

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