

# BELZONA REBUILDS THE WALLS OF A SECONDARY CONTAINMENT AREA

ID: 6115

**Industry:** Buildings & Structures  
**Application:** WPA-Wall Problem Areas  
**Substrate:** Concrete and steel rebar  
**Products:** \* Belzona 4111 (Magma-Quartz) ,  
\* Belzona 4154 (Bulkfill Resin) ,  
\* Belzona 4911 (Magma TX Conditioner) ,

**Customer Location:** Cement Plant, Oregon, USA  
**Application Date:** September 2015

## Problem

Severe cracks and damage in the walls of the ammonia secondary containment due to design issues.



## Photograph Descriptions

- \* Showing damage to the walls ,
- \* Forming boards used for the application of Belzona 4154 ,
- \* Pouring of Belzona 4154 ,
- \* Completed application showing Belzona 4111 as a top layer ,

## Application Situation

Concrete walls of an ammonia secondary containment area.

## Application Method

The damage at the SE corner required cutting out a section of the walls in one area and a simple removal of a small section at the SW corner. A grinder was used to remove oxidation from rebar. Belzona 4911 was applied to the steel rebar and concrete. Form boards were attached to the concrete to create a frame before pouring Belzona 4154. Once cured, the form boards were removed. A grinder was used to remove the gloss off of Belzona 4154, then the surface was wetted with Belzona 4911 to prepare it for the application of Belzona 4111 as a finishing layer.

## Belzona Facts

Originally the plan called for rebuilding with concrete. When the engineers saw the bond strength of the Belzona 4154 and 4111

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FS 695214  
ISO 14001:2015  
EMS 695213

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