

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
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