

CHINCHILLA WATER TREATMENT PLANT (PROTECTIVE COATINGS)

PROJECT SUMMARY

Client: Monadelphous Engineering
Pty Ltd

Location: Chinchilla Water Treatment
Plant, Chinchilla

Duration: 2 weeks

Value: \$ 35,000

Challenges to Overcome:

- Access



New Chinchilla Water Treatment Plant Chemical bunds

Program

The protective coatings in the chemical bunds and jointing works commenced in October 2016 and was completed over a 10-day period. Due to difficult access, part of the jointing work was only completed in December 2016.

Project Scope

The project included the following repairs/works:

- Prepare concrete substrate
- Prime substrate
- Spark Testing for pinholes and defects
- Epoxy protective coatings in chemical bunds
- Polyurethane joint sealing in water clarification tanks.




The Project

The new Chinchilla Water Treatment Plant is located on Aerodrome Street, Chinchilla. The chemical storage areas required a chemical protective coating for the Sodium Hydroxide and Sodium Hypochlorite storage area (Room 1) and the PAC and Liquid Polymer storage area (Room 2)

Polyurethane joint sealing was undertaken in the concrete water clarification tanks to avoid any potential water leaks through the cold joints.

Completed Works

The following work was successfully completed at the Water Treatment Plant:

<p><u>Chemical Room 1: Protective Coating in Chemical Bunds (Sodium Hydroxide and Sodium Hypochlorite)</u></p> 	<p><u>Materials Used:</u></p> <ol style="list-style-type: none">1. Chemrite Epoxy Paste2. Chemrite Primer 813. Chemrite 135
<p><u>Chemical Room 2: Protective Coating in Chemical Bunds (PAC and Liquid Polymer)</u></p> 	<p><u>Materials Used:</u></p> <ol style="list-style-type: none">1. Chemrite Epoxy Paste2. Chemrite Primer 813. Chemrite 135
<p><u>Water Clarification Tanks: Polyurethane joint sealing</u></p> 	<p><u>Materials Used:</u></p> <ol style="list-style-type: none">1. Fosroc Primer 132. Emer-seal CR3. Emer-seal PU40