



# SULPHURIC ACID RECEIVAL BUND

# SUMMARY

**Industry:** Coal powered Electricity Generation

**Product:** Chesterton® ARC 988, Chesterton® ARC797, Chesterton® ARCCS4, Chesterton® ARCS2

**Plant:** Sulfuric Acid Receival Bund

**Location:** Eraring, NSW Australia

**Summary:** Existing protective liner failure in a number of areas enabled direct exposure to the concrete surface allowing chemical corrosion. Pooling areas, drain grate and sump internals also suffered severe corrosion.



# PROBLEM DESCRIPTION

## Deterioration

Corrosion of the pooling areas is quite evident.



## Chemical corrosion

Liner failure exposing concrete surface.



# PROBLEM DESCRIPTION

## Chemical Corrosion

Due to acid spillages at the connection points, the steel coated supports were badly corroded with severe chemical corrosion evident on the drain grate and sump internals.



# SURFACE PREPARATION

HP water blast, diamond grinding and acid etching were the methods used to remove the failed poly liner and prepare for Imatech's chemical resistant coatings



# SURFACE PREPARATION



Pooling areas were re-graded using Chesterton® ARC988 ceramic reinforced composite.



Sump internals and recess were re-graded with Chesterton® ARC988 ceramic reinforced composite. A new grate was manufactured then blasted and coated with Chesterton® ARCS2 chemical resistant coating.

# SURFACE PREPARATION



Steel supports were grit blasted and coated with Chesterton® ARCS2 chemical resistant coating.

Chesterton® ARC988 was used to stabilize and protect the base.

# SEALING AND COATING



Surface area was primed and sealed with Chesterton® ARC797 hydrophobic primer then top coated with Chesterton® ARCCS4 chemical resistant coating.

A non-slip surface grit was also applied.

# SOLUTION



High visibility yellow non-slip coating was recoated in a two coat application.

The grate had to be rated to enable truck movements.

Non-slip surface grit applied for operator safety.



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