

# Project Case Study

## Project

**Shell**  
**Bitumen Bulk Storage**  
Port Adelaide  
SA



## Project Summary

### Substrate

Insulated & Heated  
Steel Tanks

### Surface Preparation

### Grit Blast

### System

Intertherm 228  
Interplus 356  
Intercure 420

## Project Description

Grit blasting is a process where abrasive particles are pneumatically accelerated and forcefully directed against a surface. These high speed abrasive particles remove contaminants from the material's surface to condition the surface for subsequent finishing.

Complete Acid Protection was able to meet the requirements of Shell's design brief with a remedial blasting solution.

The existing coating system had failed due to moisture containment under the insulation banding which was accelerated by extreme temperatures. This caused the existing epoxy to flake off and peel away from the sides of the steel tanks. Excess bitumen was also pouring over the top of the tanks and baking on to the steel.

The solution involved building a swing chair which enabled application of the system to the sides of the tank at haste.

Firstly a grit blast was conducted using a twin head rotating blast nozzle to remove rust and excess bitumen. The twin head enabled a greater degree of aggressive blasting to the surface which resulted in greater efficiency. Secondly an improved high temperature epoxy phenolic Intertherm 228 was used followed by an improved top coat system Interplus 356.

The result. Fully protected bitumen tanks completed within the strict time frames of operational necessity.

The concrete protection & restoration specialists  
South Australia, Tasmania, Victoria & Northern Territory