

# Case Study



<b>Client:</b> <i>BP Kinneil, Finnart and Dalmeny</i>	<b>Industry:</b> <i>Petrochemical</i>
<b>Scope:</b> <i>Floating Tank Roof</i>	<b>Date:</b> <i>2003 - ongoing</i>
<b>Location:</b> <i>UK</i>	<b>Product:</b> <i>Epo-chem™ RL 500PF</i>

## Overview

A number of floating tank roofs at BP Kinneil, Finnart and Dalmeny have been refurbished since 2003 utilising **Chemco's** unique coating solution. This case study will focus on a 4,000m<sup>2</sup> floating tank roof at BP Kinneil which required a complete refurbishment. This project was carried out by Hertel.

## Challenge

The wintry condition of low temperatures, high humidity and showers made these projects a difficult job for the originally specified 3-coat epoxy paint system. A work package of 24 days had been allowed to complete the project.

## Solution

Following many other successful applications by the site contractor, **Epo-chem™ RL 500PF** was put forward as an alternative and accepted by the BP project team. The tank roof was high pressure washed to remove salt deposits and other contaminants, and the areas of heavy corrosion were spot blasted or mechanically prepared down to metal. Spot blasted areas were coated with 1 coat of **Epo-chem™ RL 500PF @ 150µ DFT**. Standing water was removed by brush or squeegee and 2 full coats of **Epo-chem™ RL 500PF @ 150µ** was applied overall by brush roller or spray.

## Outcome

During the contract, the freshly coated areas experienced many occasions of heavy rain and many puddles of cold water forming within hours of application. The **Epo-chem™ RL 500PF** was left untouched to cure underwater without the necessity of **ANY** remedial work and **Chemco** guarantee of 16 years was issued, despite the curing condition. This is unique and unheard of in the history of tank roof applications.

Continued overleaf

1



2



### Photographs:

- No. 1 BP Kinneil tank top
- No. 2 Typical level of corrosion on floating roof

## Outcome (cont'd.)

The planned 24 day program was completed in 12 days, offering a huge cost savings as compared to the usual delays due to bad weather. Since the successful completion of this contract, the material has been specified for a number of other tank roofs, tank externals and pipe work in Grangemouth, Dalmeny, Finnart and Kinneil, all with complete success.

## Benefits

- Flexibility of surface preparation (any method can be utilised)
- Exceptional **wet & rust tolerant** properties
- Can be applied in any environmental conditions
- Significantly reduced downtime (work programme completed in half the given time frame)
- **Chemco** uniquely guarantee their work.

3



4



### Photographs:

- No. 3 Completed application:  
Two coats of Epo-chem™ RL 500PF
- No. 4 Overview of non-slip walkway

- Solvent-free • Water-based • Wet-tolerant
  - Rust-tolerant • Zero VOC
- Tank & Pipe Linings • Under-water & Marine • Glassflake
- Rust Converters & Primers • Ceramic & Metal Repair • Anti-static, Conductive & Anti-slip Flooring
- Approved for Contact with Food, Drinking Water & Beverages • Damp or Green Concrete Primers
  - Concrete Repair Systems • Elastomeric System
- High Temperature Systems • Fire Retardant • Insulation Systems

East Shawhead Industrial Estate  
Coatbridge ML5 4XD  
Scotland United Kingdom

Tel: +44 (0) 1236 606060

Fax: +44 (0) 1236 606070

Email: [sales@chemcoint.com](mailto:sales@chemcoint.com)

Web Site: [www.chemcoint.com](http://www.chemcoint.com)

