

**CASE STUDY:**

# INDUSTRIAL

**IND31 – Chemical Concrete Bund Repair  
– Nuclear Site**



# IND31 - Chemical Concrete Bund Repair - Nuclear Site



## Client

Nuclear Site

## Scope

Chemical Concrete Bund Repair

## Location

UK

## Industry

Industrial

## Date

2021

## Products

RH 800 and RB 300 Series

## Overview

The client was seeking proposals and costs for lining the internal walls, floor slabs, plinths, up-stands, drainage channel and sumps of a newly built bund on a Nuclear licenced site in the UK.

This project was carried out by **Resitech**.

## Challenge

The floor slab and plinths were constructed in concrete and the walls were constructed of block masonry.

The brief was to provide a sound, liquid containing structure with a chemically resistant lining system that would accommodate Nitric Acid at 60% concentration and Caustic Soda at 27%.

## Solution

Following discussions with Chemco, Resitech proposed the **RB 300 Series** Vinylester Glassflake Lining System with its proven history in this type of environment.

The concrete surfaces were prepared in accordance with Chemco's instructions, before **RH 800** was applied as a moisture tolerant primer.

In order to blind the surface and support compatibility with the subsequent vinylester system, aggregate was then added to the wet **RH 800**.

This was followed by application of laminating resin **RB 300L**, in conjunction with fibreglass matting.

Finally, **RB 364** was applied as topcoat to provide the required chemical resistance.

## Outcome

The specification and proposal were accepted by the client and work commenced on 1st March 2021 and was completed on the 18th march 2021 to areas totalling 145m<sup>2</sup>.

Despite difficult working conditions and a plant that was to remain operational throughout the works, the project was completed in 3 weeks to the satisfaction of the client.

## Benefits

- Excellent resistance to high temperatures, thermal ageing, severe chemical, corrosive and abrasive environments
- Provides a tough impermeable barrier suitable for steel and concrete surfaces
- Suitable for application in high temperature flue gas plant and equipment
- Proven resistance to aviation fuels methanol/water mixtures
- Low maintenance and ease of reparability

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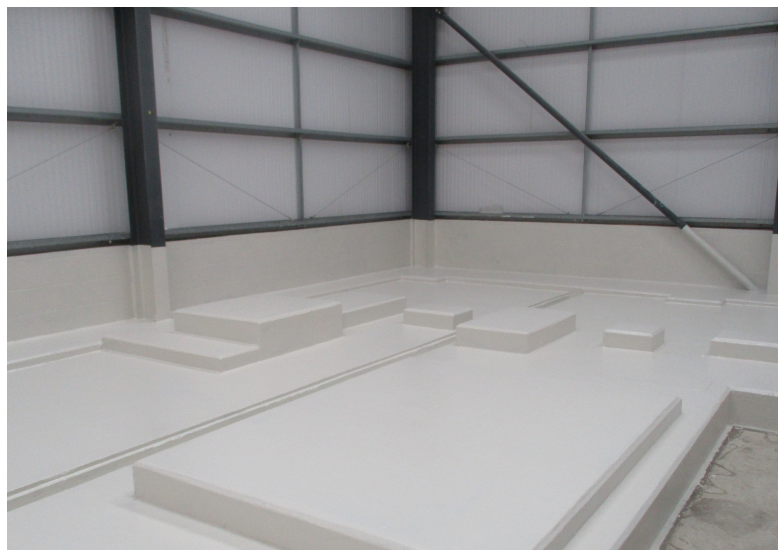
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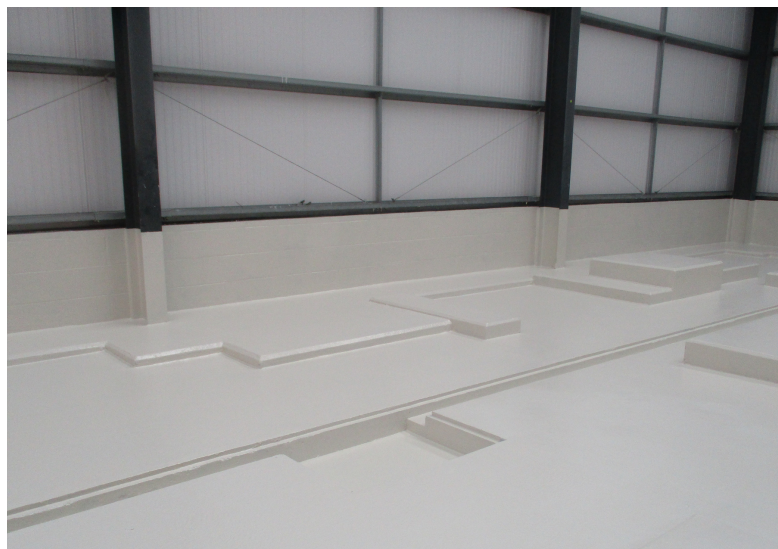
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### Products

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Completed Application



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