

Project Completion Report

TR2176



Office Building

Reline of Sprinkler Water Tank & Associated Mechanical Works



Project Brief

Tank Reline Reference:	TR2176
Client name:	A client
Client contact:	A contact
Site name and address:	A address
Project start and end date:	30th April 2018 to 21st May 2018
Report prepared by:	Keagan Melson

Scope of Works:

Relining works: Prepare and reline one sprinkler water tank (tank 3m x 2m x 3m) located in the Basement Plant Room. Upon completion, clean and disinfect sprinkler tank before returning to service.

Associated mechanical works: Remove existing steel ladder and replace with one new GRP ladder.

Methodology

- Upon arrival, tanks were drained down by Titan Mechanical Services - **Complete**
- Surface Preparation, all accessible bolts tightened, mastic joints assessed and repaired where necessary. All surfaces then abraded to raise a surface profile of ~75microns - **Complete**
- Prior to application of Tank Reline 165 DWPU Solvent Free Polyurethane, where necessary, dehumidification/heating equipment was used to ensure correct curing conditions were achieved. - **Complete**
- Application of Stripe Coat - the product was applied by brush to all joints, edges, bolt heads, struts and other sharp protuberances to ensure any high-risk areas are secured and enable subsequent coating to be a seamless membrane - **Complete**
- Application of First Coat - the product was applied by roller to all internal surfaces to a minimum 750-micron wet film thickness - **Complete**
- Application of Second Coat - the product was applied by roller to all internal surfaces to a minimum 750-micron wet film thickness to achieve a desired 1000-micron total coating thickness on all internal surfaces - **Complete**
- **Ladder Replacement** – Existing ladder was removed and replaced with a new GRP ladder, using the same fixture points on the tank.
- Re-commissioning of the tank - upon completion of works, the tanks were refilled and disinfected in accordance with the requirements of PD855468:2015, before being returned to service. A disinfection certificate is included in the last page of this report - **Complete**

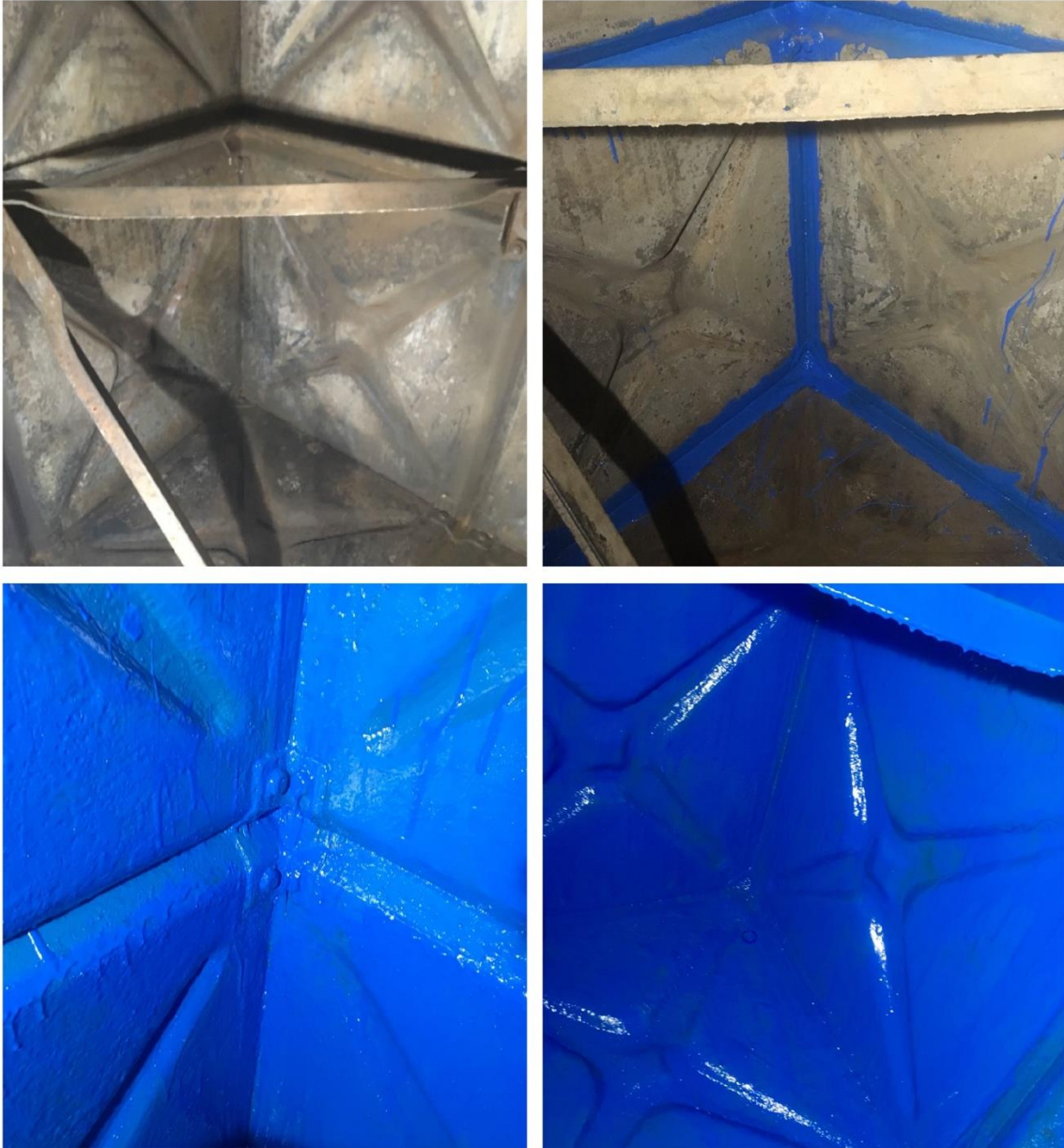
Condition of Tank Prior To Commencement of Works

Sprinkler Water Tank was in poor condition prior to preparation and had heavy internal corrosion along the walls and base.



Relining Process

The photos below show the tank at various stages of the process, from preparation of the surface (top left), to the application of the 1st coat (bottom right).



Final Coat

The photos below show the tank after the final application of the 2nd coat, and the new GRP ladder replacement. A dry film thickness test was carried out during the process with an average thickness of more than 1500 microns achieved on all surfaces.



Disinfection Certificate – TR2176

Client:

A client

Client Contact:

A contact

Site Address:

A address

Details of Tank(s) Disinfected:

Sprinkler Water Tank located in basement plant room

Date of Disinfection:

21st May 2018

Declaration:

I hereby certify that the tank(s) named above were disinfected with 250ppm of silver hydrogen peroxide in line with method statement TR2176.

Signed on behalf of Titan:
Position: Director



Name: Marc Fitzpatrick
Date: 22nd May 2018