Project Completion Report
Reline of Leaking GRP Sectional Tank
Frimley Park Hospital - London

Project Overview

Site address: Frimley Park Hospital - London

Completion Time: 8 days

Project Brief: Reline CWST with a WRAS approved polyurethane, and repair external insulation.

Scope of Works

- Arrival - Tank(s) to be drained down by Titan Mechanical Services. **- Complete**
- Surface Preparation – All accessible bolts tightened, and mastic joints assessed and repaired where necessary. All surfaces then abraded to raise a surface profile of ~75microns. **- Complete**
- Solvent free polyurethane coating - Where necessary, dehumidification/heating equipment will be used to ensure correct curing conditions are achieved. The solvent free polyurethane coating is applied by brush or roller to give a uniform even thickness of a nominal 500microns per coat. A minimum of two coats will be required to achieve a nominal specified thickness of 1000microns (1mm). **- Complete**
- Application of Stripe Coat – Product is 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 - Product is applied by roller to all internal surfaces to a minimum 500-micron wet film thickness. **- Complete**
- Application of Second Coat - Product is applied by roller to all internal surfaces to a minimum 500-micron wet film thickness to achieve a desired 1000-micron total coating thickness on all internal surfaces. **- Complete**
- Re-commissioning – Upon completion of works, the tank(s) will be refilled and disinfected in accordance with the requirements of PD855468:2015, before being returned to service. A disinfection certificate will be issued along with a completion report. **- Complete**
- Repair insulation to the external of the tank. **– Complete**

Photographic Evidence of Works Completed

The photo below shows the extent to which the cold-water storage tank was leaking, causing major operational difficulties in the plant room area:

Photographic Evidence of Works Completed

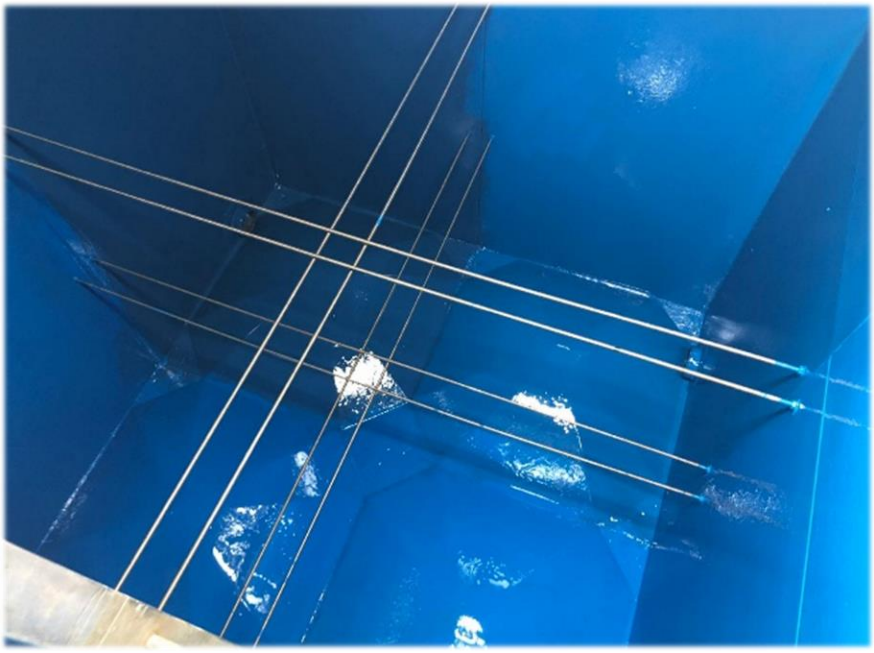
CWST was in poor condition prior to preparation, with clear evidence of debonding in the mastic, and delamination of the GRP surface.

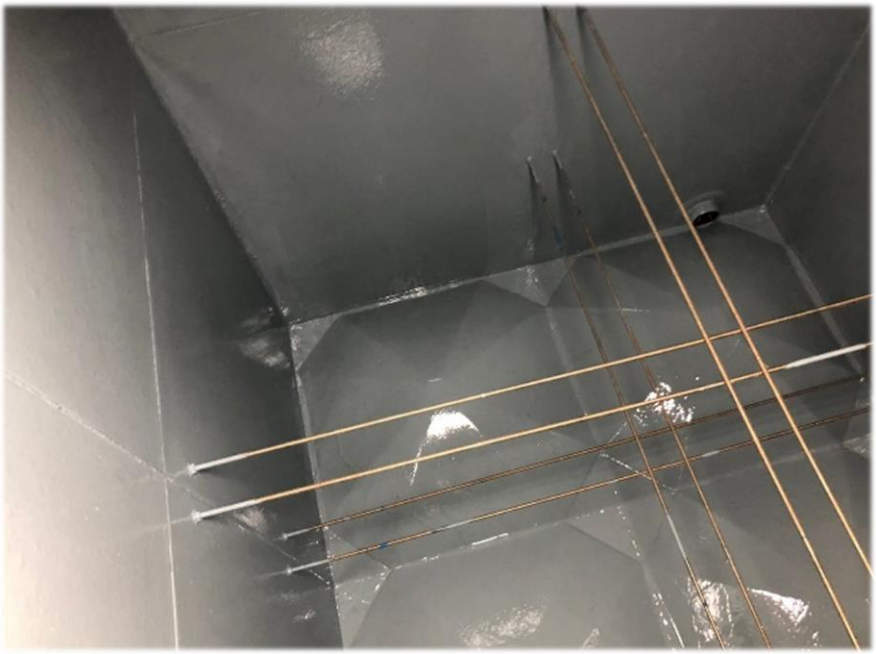
Photographic Evidence of Works Completed

The photos below show the tank surfaces being prepared, ready to be relined:

Photographic Evidence of Works Completed

The photos below show the first and second coats of a WRAS approved polyurethane being applied. A dry film thickness test was carried out during the process with an average thickness of more than 1000 microns achieved on all surfaces.





Photographic Evidence of Works Completed

The photos below show before and after the tank insulation was repaired.