

# Project Completion Report

## Reline of Galvanised Steel Tank

### Care Home - London



## Project Overview

**Site:** Care home, London

**Project Time:** 6 Days

**Scope of Works:** Prepare and reline one (1) GRP cold-water storage tank (tank 3m x 3m x 1.5m). Upon completion, the tank will be re-filled and disinfected before being returned to service. Installation of temporary tank and associated pipework, installation of new insulation, screened lid vents and overflow to cold water storage tank on site, Replace 2" float valve with a new Keraflo KB valve.

## Methodology

- Upon arrival, a temporary tank with a 4" supply and 2.5" supply to be installed and put on-line for the duration of the works – **Complete**
- Original tank to be drained down by Titan Mechanical Services – **Complete**
- Surface Preparation, all accessible bolts to be tightened, mastic joints assessed and repaired where necessary. All surfaces will be abraded to raise a surface profile of ~75microns - **Complete**
- Prior to application of Solvent Free Polyurethane, where necessary, dehumidification/heating equipment will be used to ensure correct curing conditions are achieved - **Complete**
- Application of Stripe Coat - the product to be 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 to be applied by roller to all internal surfaces to a minimum 500-micron wet film thickness - **Complete**
- Application of Second Coat - the product to be 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**
- New insulation and screened lid vents to be installed to cold water storage tank – **Complete**
- Overflow to be installed – **Complete**
- Existing 2" float valve to be replaced with a new Keraflo KB valve to allow adjustment of water level - **Complete**
- Re-commissioning of the tank - upon completion of works, the tanks will be refilled and disinfected in accordance with the requirements of PD855468:2015, before being returned to service - **Complete**

## Photographic Evidence of Works

The photos below show the area where the temporary tank would be situated and the condition of the tank and pipework prior to commencement of works:





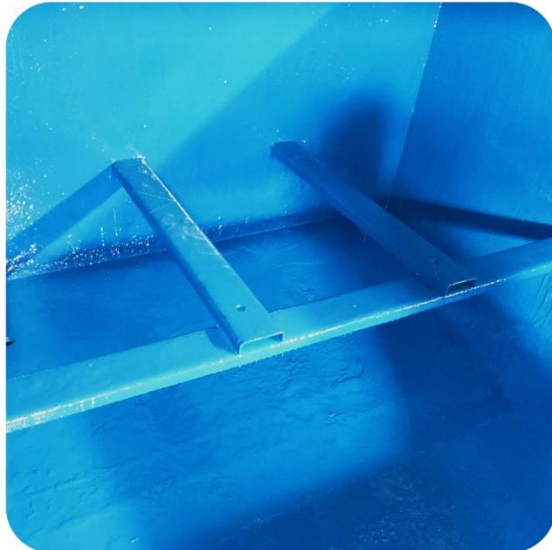
**Photographic Evidence of Works**

The photos below show the newly built temporary tank and the bypass pipework:



## Photographic Evidence of Works

The photos below show the tank once it has been prepped, the stripe coat applied, and the first coat fully applied:



## Photographic Evidence of Works

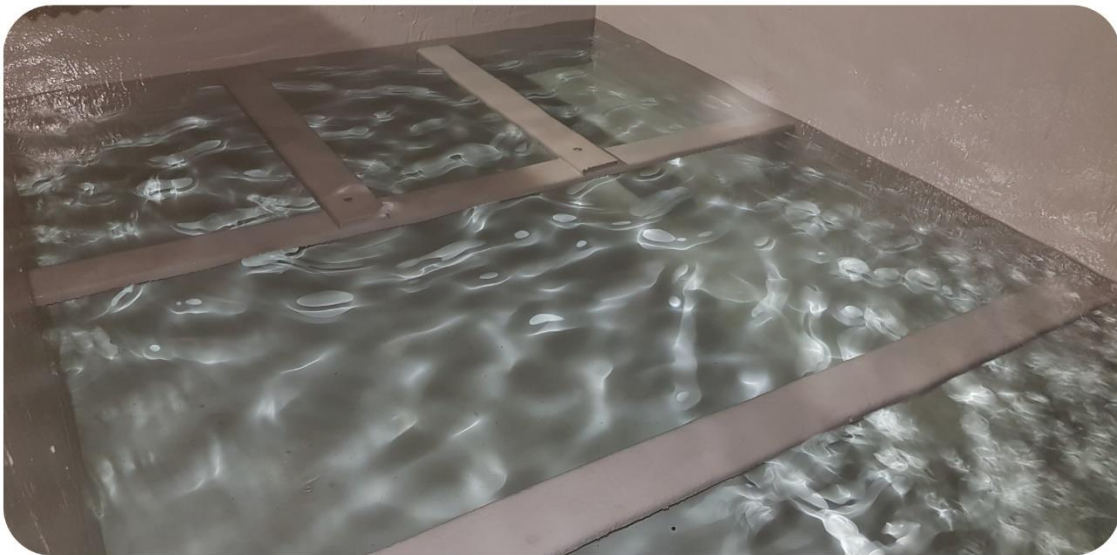
The top two photos below show the tank once the final coat has been applied. A dry film thickness test was carried out during the process with an average thickness of more than 1000 microns achieved on all surfaces. The bottom left photo shows the Keraflo KB valve installed and the bottom right photo shows the vent pipework moved to a tundish.





## Photographic Evidence of Works

The photos below show the newly relined tank, recommission and back in service:



## Photographic Evidence of Works

The photos below show the newly insulated tank and with a new lid vent installed:

