

COMPLETION REPORT

Client : **XXXXXXXXXX School**

Project Brief : **The Internal Relining of 1 No Cast Iron CWS Tank within the Clock Tower**

Site Address : **UK**

Client Contact : **XXXXXXXXXX**

Site Contact : **XXXXXXXXXX**

System Spec : **3M Scotchkote™ 165PW**
(Formerly Known as COPON Hycote 165PW)

Film Thickness : **1000 Microns**

Covac Supervisor : **Timothy Ray / David Elwell**

Completion Date : **16th July 2010**

Compiled By : **Adrian Emmett**

Covac Ref : **993**

SUMMARY OF WORKS

The Brief

The Clock Tower

1 No. sectional, cast iron, water retaining structure sized at approximately 11' x 11' x 6' high and located within a 'tower' of one of the school's main buildings. The tank is accessed by approximately three flights of stairs and (finally) a steel ladder.

The internal surfaces of the tank had been previously painted with a non (WRAS / DWI) approved coating which had now approached the end of its useful life due to sub-film corrosion, non-compliance, general deterioration and subsequent de-bonding.

The following images showed the current internal condition:-





If left untreated, the internal surfaces would have continued to be at risk from bacterial growth including Legionella, Pseudomonas and Biofilm; this could have led to further deterioration in the tank's surface structure and contamination of the down services with the supply of unhygienic water to the outlets.

We, therefore, proposed the following: -

Mechanical Preparation

Brush & Roller Application



These photographs show the internal surfaces of the tank prior to relining work commencing.



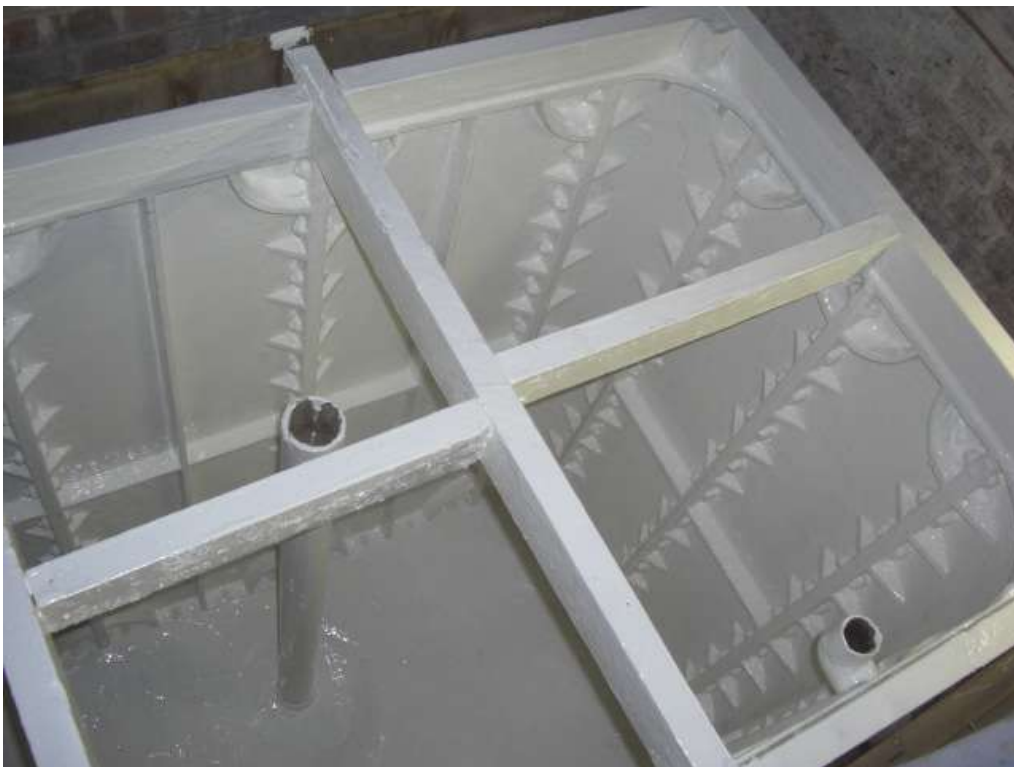


All internal surfaces of the tower were prepared utilizing abrasive blasting equipment and manual tools in order to remove any existing coatings and / or contamination. The abrasive used was capable of producing a surface profile of 50 – 75 Microns to promote optimum adhesion of the lining system.





All seams, joints, bolts etc were then initially 'stripe coated' and strengthened in conjunction with fibreglass webbing to ensure all intricate areas were coated prior to the 1st full coat of 3M Scotchkote™ 165PW Solvent Free Polyurethane. The concrete floor was sealed using 3M Scotchkote™ Clear Sealer.



These photographs show the substrates having received the 1st full coat of 3M Scotchkote™ 165PW (cream) Solvent Free Polyurethane, by means of brush and roller to a nominal wet / dry film thickness of 500 Microns.





All intricate areas were again 'stripe coated' for a second time. The following photographs show the final application of the 2nd coat of 3M Scotchkote™ 165PW (grey).

