

COMPLETION REPORT

Client : **Financial Institution**

Project Brief : **The Internal Repair and Lining of 1 No. GRP CWS Tank**

Site Address : **UK**

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

Film Thickness : **1000 Microns**

Completion Date : **26th October 2009**

Compiled By : **Craig Phillips**

Covac Ref : **901**

SUMMARY OF WORKS

The Brief

1 No. GRP, Potable, Water Retaining Structure, sized at approximately 4m x 2m x 2m and located within a roof top plant room accessed by a ladder in the office toilets.

These images show the internal and external of the structure before repair and lining:-



The internal surfaces of the structure were in relatively good condition, however, the internal steel fasteners were showing signs of excessive corrosion which needed to be addressed. If left untreated, the internal surfaces would continue to be at risk from bacterial growth including Legionella, Pseudomonas and Biofilm; this can lead 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 are all now under an obligation to ensure that water retaining structures comply with the practical guidance of ACOP L8 and subsequently, utilize products that comply with WRAS / DWI Regulations and, therefore, maintain "the cleanliness of the system and the water in it" and avoid the "use of materials that harbour bacteria and other micro-organisms or provide nutrients for microbial growth".

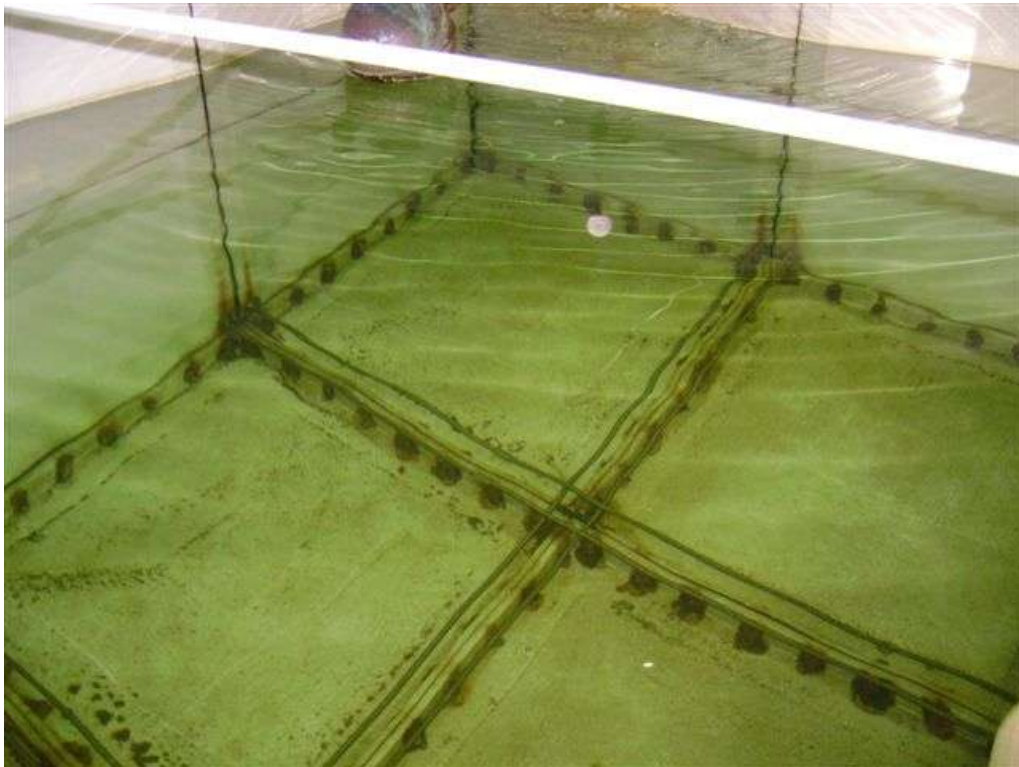
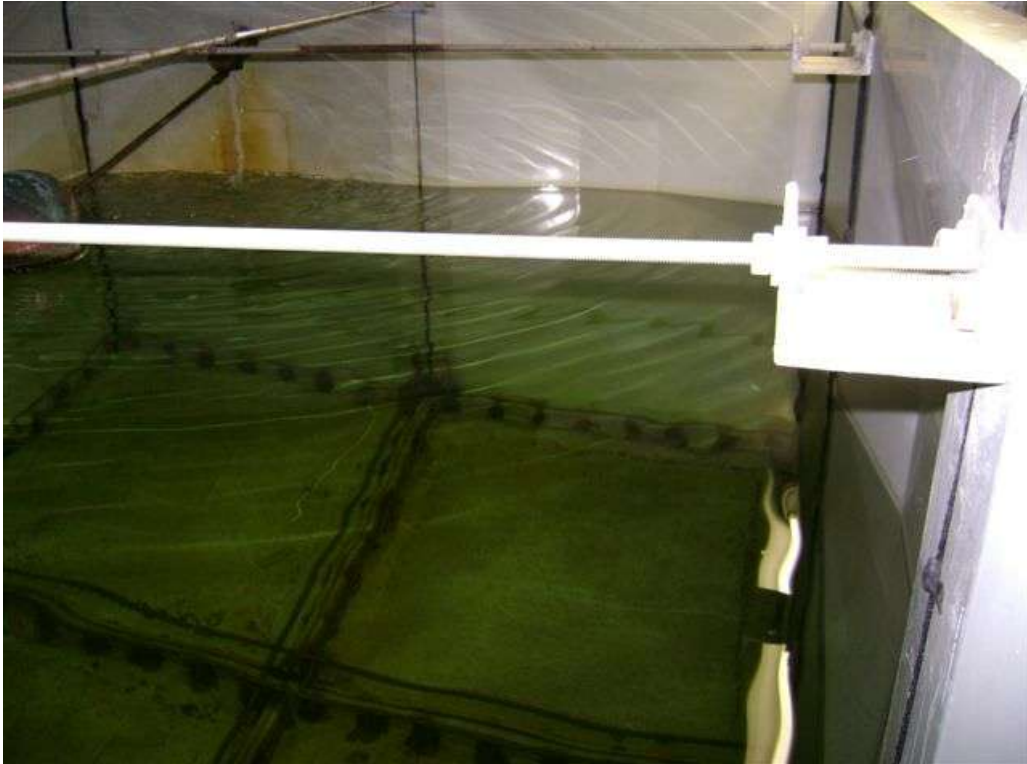
Prosecutions have been taken under the Health & Safety at Work Act 1974 and under the Control of Substances Hazardous to Health Regulations 1988. Therefore compliance is essential.

We, therefore, proposed the following: -

GRP Manual Preparation
Brush & Roller Application



These images show the tank before being drained of water.





These photographs show the internal surfaces of the tank having been drained of water, but prior to any work commencing. Severe corrosion on the steel fastenings can be clearly seen.







These pictures show the internal substrate after being prepared by COVAC Operatives in order to raise a suitable surface profile on the substrate and promote optimum adherence of the 3M Scotchkote™ 165PW lining system.



All joints were treated to prevent leaks and allowed to cure.



The following photographs show the final application of t 3M Scotchkote™ 165PW (grey).



