

# INDUSTRIAL CASE STUDY

## TESTIMONIAL: WELSH WATER



"The LINE-X product specified and applied performed to its expectations.

Four years ago [2013], we had a unique challenge of sealing a water tank in the Port Talbot area from external water ingress. Poor quality construction of a roof slab on the concrete tank reduced the effective depth of the slab, reducing its structural capability, resulting in moderate cracks over a large section of the slab, particularly around column heads. It was recommended the soil and stone drainage placed over the top of the tank was removed to reduce the loading on the structure and a lighter membrane applied to seal the tank from water ingress.

The soil and stone offered insulation qualities and it was decided to apply an insulation layer beneath the membrane to limit the effects of heat transference during hot weather. A thermal layer was to be included in the storage tank membrane application.

Application of the membrane and thermal coating had to conform to WRAS regulations. The insulation was not for thermal efficiencies and cost savings but to stop the reservoir getting too warm, causing the chlorine in the water to evaporate, thus giving water quality issues and disinfection failures.

Other products were not an option due to either the quality or weight. LINE-X solved our problem and regular maintenance checks show that four years later there are no leaks. LINE-X saved us time and money refurbishing our tanks, removing the need to reconstruct the concrete reservoir tank roof."

Lynn Holloway BEng (Hons) CEng MICE Senior Chartered Civil Design Engineer Welsh Water Engineering Delivery Team

**PROJECT OVERVIEW:** Light Weight Insulation Layer (Insu-Prime) And Waterproof Barrier (XS-350) For Reservoir Roof

**PRODUCTS USED:** LINE-X XS-350; Insu-Prime Foam



[WWW.LINEXAUS.COM.AU](http://WWW.LINEXAUS.COM.AU)