

YEARS
AHEAD

permare® ep

National Grid Substations . Pyle / Carrington . UK

Client NATIONAL GRID COMPANY PLC

Authorised Contractor BRUNEL PAINTING & SPECIALIST COATINGS LTD.

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Products in action

The **Permare® EP** high performance epoxy polysulphide membrane has been used to provide an impermeable lining for the reinforced concrete and brick transformer oil tank bunds, at National Grid's sub-stations at Pyle in South Wales and Carrington in Greater Manchester.

The work was carried out as a result of National Grid's "National Environmental Audit" to ensure it's compliance with Section 38 of the Electricity Act 1989, and it's duty to provide a water/oil proof liner to all existing and new bunds.

The contracts at Pyle and Carrington required the coating of both new and old bunds. The new bunds consisted of concrete which was less than fifteen days old. The old bunds, constructed of brick, were some ten years old.

These bunds were heavily contaminated with oil while the concrete of the new bunds was very porous. These problems combined with the poor weather experienced during application led to exacting site conditions. However, the versatility of the **Permare® EP** system, in conjunction with Stirling Lloyd's Metaset® rapid repair mortars and MSL2 mastic sealant, successfully overcame these problems.

Cost-effective long term protection

In service, as well as being resistant to transformer oil, the coating needed to be durable enough to withstand the constant vibrations and expansions experienced as a result of the movements of the transformer itself, as well as the varying depths of the concrete bunds.

Following on from the successful work at Pyle and Carrington, **Permare® EP** has been used on numerous National Grid bunds throughout the UK. **Permare® EP** has provided a cost-effective, long-lasting membrane, preventing the possibility of transformer oil seeping into the surrounding land for many years to come. ■



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