

CASE STUDY



BUND REPAIR

NOVEMBER 2024

Following integrity inspections at a client's depot, **critical defects were found within hazardous chemical bunds**, including porous wall structures and compromised floor joints.

A specialist repair team was deployed to carry out comprehensive remedial works, restoring full containment integrity and ensuring the bunds met environmental and structural compliance standards.

AT A GLANCE

Challenges

- Porous bund walls
- Damaged concrete floors
- Failing construction joints

Result

- Bund integrity restored
- Fully sealed joints
- Compliant secondary containment
- Floor structure reinforced

CIRIA (C736) GUIDANCE STATES:

"All works need to be properly designed, whether it is the construction of a new or replacement bund, the extension or modification of an existing bund, or repair and maintenance work as set out in current standards".

"Containment facilities should be inspected by a competent person who is familiar with the type of construction. This requirement applies to all persons involved in any subsequent repair process, including scheme designers, contractors and works inspectors".



SCOPE OF WORKS

• Site Preparation & Safety Measures

Mobilisation of a trained 2-man bund repair team for up to six weeks, equipped with specialise equipment, tools, and consumables to complete repairs safely and efficiently.

• Advanced Wall Waterproofing

160m² of internal bund walls were rendered using a high-strength waterproofing grout specifically formulated for wet-loaded masonry. This product ensures long-term resistance to chemical ingress and enhances the durability of aging wall materials.

• Precision Joint Engineering

106 linear metres of failed expansion and construction joints were reinstated using an advanced elastic sealant engineered for chemical and oil resistance. This ensured flexible, watertight jointing in areas subject to structural movement and exposure.

• Targeted Structural Repairs

Critical floor defects and tank base interfaces were expertly sealed and repaired using a fibre-reinforced, fire-resistant mortar meeting Class R4 under BS EN 1504-3. This high-performance solution restored structural integrity while maintaining compliance with modern containment standards.

OUTCOME

All identified structural and waterproofing faults were fully remediated, restoring the bunds to compliance with CIRIA C736.

The repairs significantly strengthened the containment infrastructure, enhanced environmental safety, and aligned with relevant regulations including The Control of Pollution (Oil Storage) Regulations.

Ready to safeguard your site? Our expertly delivered secondary containment solutions ensure long-term compliance, durability, and peace of mind. Whether it's new construction or critical repairs, get in touch to see how we can help you protect your assets - and the environment.



Interested in bund repair services? Call us today **01656 741799**

www.gptenvironmental.co.uk

