The Caltite waterproof concrete system is a time-proven, practical system which produces damp-proof, highly durable concrete which can be used either as a stand-alone system or incorporated as part of a dual system when required. Caltite has a successful track record of over 60 years helping designers, developers and owners waterproof and protect concrete structures, even under the most aggressive conditions, including over 55 years of experience in corrosion protection.

Caltite waterproof concrete system

Caltite can be used in:
- All grades of basement structures - car-parks, plant rooms, habitable areas and archival storage.
- Swimming pools, marine environments, aquariums and water tanks
- Tunnels, underground stations and electrical sub-stations
- Hygienic environments (e.g. hospitals, abattoirs & food processing plants)
- Sewage treatment, manufacturing and industrial applications
- Acidic environments
- Energy from Waste (EfW) plants
Caltite also provides hugely enhanced performance even in the most aggressive of situations

In 1960, ordinary un-reinforced concrete pipeline support chairs were cast in a tidal creek in South Australia. The water in the creek has high levels of chlorides (53,000mg/litre) and sulphates (7,200mg/litre). All forms of corrosion in concrete require the presence of water - so ultra-low porosity concrete provides a high level of resistance to corrosion.

In 1962, using light reinforcement around the corroded chairs, concrete containing Caltite was placed as a protective ‘jacket’ to extend the life of the support chairs. After two years the ordinary concrete chairs had severely corroded. However, the Caltite concrete support chairs remain in service today, corrosion-free after over 55 years.

The house is designed to allow the natural movement of rising floodwaters over the site without any flooding of the house itself. The ‘dock’ was constructed in an excavation extending up to 5 meters below mean river level. Four tall galvanised steel Dolphins were installed around its perimeter to guide and stabilise the house structure during floatation. The Caltite concrete basement slab and retaining walls of the house structure itself were then constructed inside the dock. The dock structure however is constructed with ordinary concrete and is designed to permit rising floodwaters to enter into the approximately 600mm space between the dock and the basement structure. This allows the entire house to rise and float when sufficient flood water has entered into the dock as it is unable to penetrate the Caltite concrete.
The Caltite quality control system

6 steps to peace of mind with the Caltite quality control system

1. Early stage liaison with design team
2. Pre-start site meeting
3. Cementaid personnel dose Caltite at concrete batching plant
4. Cementaid site attendance for Caltite concrete placement
5. Final inspection at completion
6. Cementaid issues 20 year guarantee

Advantages of using Caltite waterproof concrete

REDUCTION IN CONSTRUCTION COSTS
Caltite delivers the maximum usable area to the client by enabling the structure to extend to the site boundaries and eliminates the need for additional excavation to allow for the installation of external tanking.

With Caltite there is no need for cavity walls and associated drainage and the structure is waterproofed as the Caltite concrete is placed.

PEACE OF MIND
Caltite admixture is added by Cementaid personnel at the Ready mix concrete supplier’s batch plant. We also attend site to record the placement details of the Caltite System concrete.

INSURANCE-BACKED GUARANTEE
A 10 year insurance-backed guarantee is provided on all projects using over 200m³ of Caltite System concrete.

Cementaid (UK) Limited for UK projects, or Cementaid (Ireland) Limited for projects in the Republic of Ireland, provide a standard 20 year performance guarantee on all projects.

SERVICE BENEFITS
- Over 60 years’ experience of waterproofing using the Caltite system
- Personal service with directly employed workforce
- Quality Assurance and aftercare service
- All technical staff are CSSW qualified
- 20 year guarantee and insurance backed warranty where and when appropriate
- Single guarantee where appropriate dual waterproofing system is required
Caltite has been established for over 60 years and has a wealth of research and site proven experience and certification behind it. We pride ourselves on our collaborative involvement with engineers and architects to achieve client objectives and have developed longstanding relationships with main contractors, Sub-contractors and specialist concrete frame and groundworking organisations throughout the UK and Ireland.