



CONCRETE'S WATERPROOFING SOLUTION



Caltite waterproof concrete system

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.

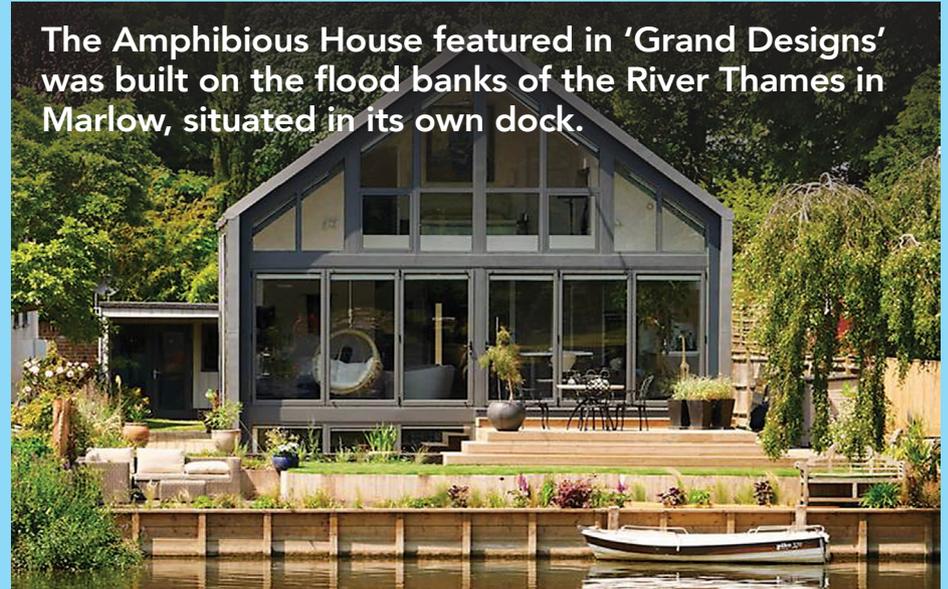
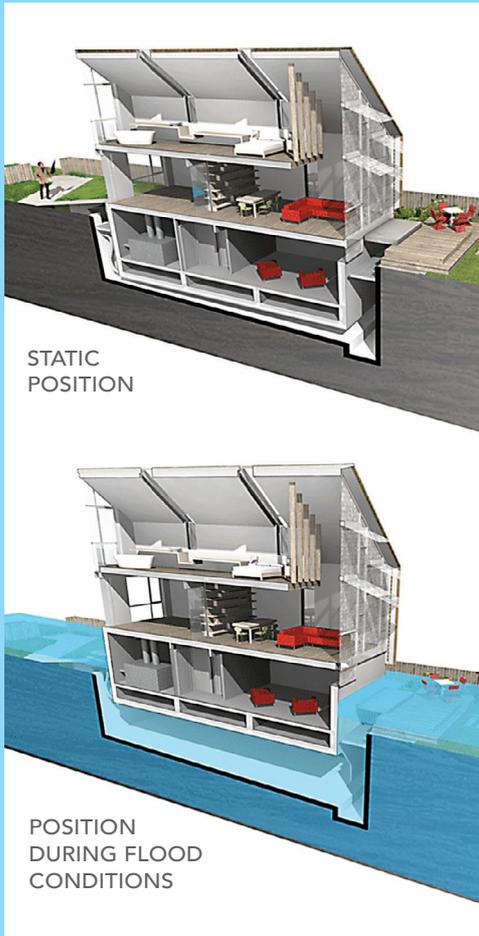
Caltite has a successful track record of over 60 years helping designers, developers and owners waterproof and protect concrete structures, even under the most aggressive conditions, including over 55 years of experience in corrosion protection.

CALTITE 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



The Amphibious House



The Amphibious House featured in 'Grand Designs' was built on the flood banks of the River Thames in Marlow, situated in its own dock.

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.

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.**



Pipeline support chair cast in 1960 with ordinary concrete after 2 years



Cast in 1962 to replace damaged chair, with Caltite - condition after 40 years



Condition after over 50 years

The Caltite quality control system



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 is recognised the world over. Here are just a few of the projects where it has been used.



KING STABLE STREET, ETON

ARCHITECT: Yigal Yonetz
CONSULTING ENGINEERS: Ward Cole
MAIN CONTRACTOR: Haymills
CONCRETE USED: 754 cubic metres



CORK COUNTY LIBRARY

ARCHITECT: Shay Cleary
CONSULTING ENGINEERS: Arup
MAIN CONTRACTOR: Rohcon
CONCRETE USED: 1,264 cubic metres



EUSTON ROAD, LONDON

ARCHITECT: Ashen Dyer
CONSULTING ENGINEERS: Pell Frischmann
MAIN CONTRACTOR: Willmott Dixon
CONCRETE USED: 407 cubic metres



TRINITY COLLEGE, DUBLIN

ARCHITECT: RKD
CONSULTING ENGINEERS: Arup
MAIN CONTRACTOR: PJ Walls Construction
CONCRETE USED: 3,500 cubic metres



SMITHKLINE BEECHAM, BRENTFORD

ARCHITECT: RWL
CONSULTING ENGINEERS: WSP
MAIN CONTRACTOR: Mace Management
CONCRETE USED: 21,411 cubic metres

For further information, technical advice and specification details please contact:

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LEICESTER UNIVERSITY

ARCHITECTS: Associated Architects
CONSULTING ENGINEERS: Ramboll
MAIN CONTRACTOR: Willmott Dixon
CONCRETE USED: 500 cubic metres



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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.