

## LOTOS Multi-effect Waterproof Powder

Making good use of natural materials, excellent quality of waterproof materials



## 成大昶閱

TECHOME  
TECHNOLOGY  
CO., LTD.



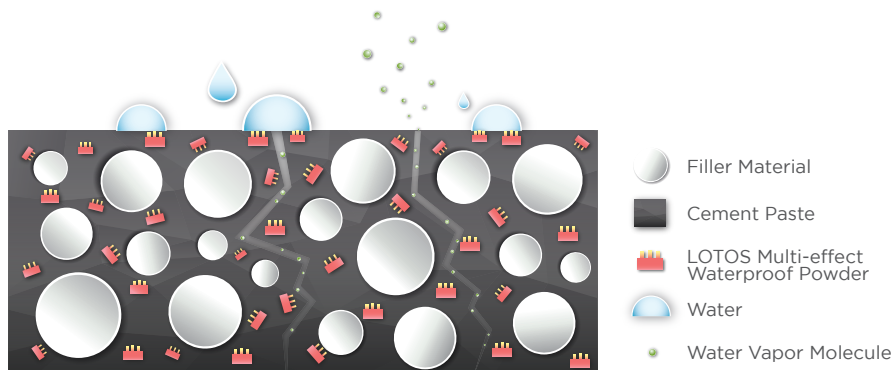
## About TecHome

TecHome Technology Co., Ltd. was established in 2007 to promote the invention of “Reservoir Sludge Modification Technology” as a business model. This technology is the main focus of the research development team, which is originated from the lightweight and structure materials laboratory in Department of Civil Engineering, National Cheng Kung University. From 2008, TecHome’s business directions started to move towards the industrial sector from its original academic roots, and branded its product with “LOTOS”, with the goal of establishing itself as a professional company in the recycling and repurposing of sludge and construction waste soil.

TecHome has been persistent in making good use of academic resources and strengthening cross sector integration, and the firm has much practical experiences and performs field verification for its projects. With sustainable management and sharing strategy as its main purpose, TecHome seeks to pursue an ideal life of coexistence and prosperity, in which it is able to collaborate hand in hand with partners within the resource recycling sector. This could help the environment and proactively develop overseas market.

## Product Introduction

TecHome takes the unique chemical properties derived from the sludge of Taiwan's water reservoirs and rivers as raw materials for its LOTOS multi-effect waterproof powder. By applying advanced nano-clay technology, the powder integrates numerous rigid waterproof characteristics, such as particle hydrophobicity, sludge waterproofing and micro cracks self-repairing functions. When LOTOS multi-effect waterproof powder spreads across the cement material, the particles become independent and therefore not connected. This feature forms a unique LED structure that could strengthen and maintain the breathability and waterproof characteristics of the cement material.



Operational Diagram of LOTOS Multi-effect Waterproof Powder

The Effect of LOTOS Multi-effect Waterproof Powder

## Product Features and Applications

The bionic waterproof and breathable cement mortar, with LOTOS multi-effect waterproof powder added, has waterproof and breathable characteristics and is easy to apply during construction due to its smooth texture. It is suitable for places in which water could easily seep in or has water leakage, such as interior & exterior hydraulic pressure layers, bathroom walls, roof terraces, balcony floors and window frame gaps. Furthermore, it is designed according to the habits of on-site professional engineers, especially applicable in high temperature and humid climate environments. The two main options of the product series are General Usage- Multi-functional Waterproof Powder and the Specialized Mortar Wipe- Multi-functional Waterproof Powder.

Actual case photo



**Waterproof and Anti-moisture**



**Prevent Wall Mold**

LOTOS Waterproof Powder 1 bag (2 kilogram)

Cement 50 kilogram

Sand 150 kilogram



**Made from Natural Materials**

The proportion chart of the bionic waterproof and breathable cement mortar

