

# NEWTON RASCOtank

Wembley Park, London, by Quintain



## Concrete Waterproofing

THE ENGINEERED AND PATENTED 'WHITE TANK' SYSTEM



# Waterproofing Expertise

## A Unique Partnership

The Newton RASCOtank System is a unique form of Type B concrete waterproofing in the UK, born out of an exclusive partnership between Newton Waterproofing Systems and RASCOR International.

### NEWTON

Newton Waterproofing Systems are the leading independent suppliers of structural waterproofing products, solutions and expertise in the UK.

Based in Kent, the company has over 170 years of experience in designing, supplying and guaranteeing specialist waterproofing installations on projects of all types and sizes, all over the UK.

### RASCOR

RASCOR International is a global group specialising in engineered waterproofing solutions for the construction industry.

Based in Switzerland, the company has over 50 years of experience in the design, manufacture, installation and warranty of concrete waterproofing systems for structures all over the world.



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RASCOtank was utilised on the 85-acre Wembley Park development in North-West London

# The White Tank System

## What is Newton RASCOtank?

### APPLICATIONS

The unique RASCOtank system is often referred to as the “White Tank” engineered waterproofing system, and it ensures that the structural concrete doubles up as the waterproof barrier.

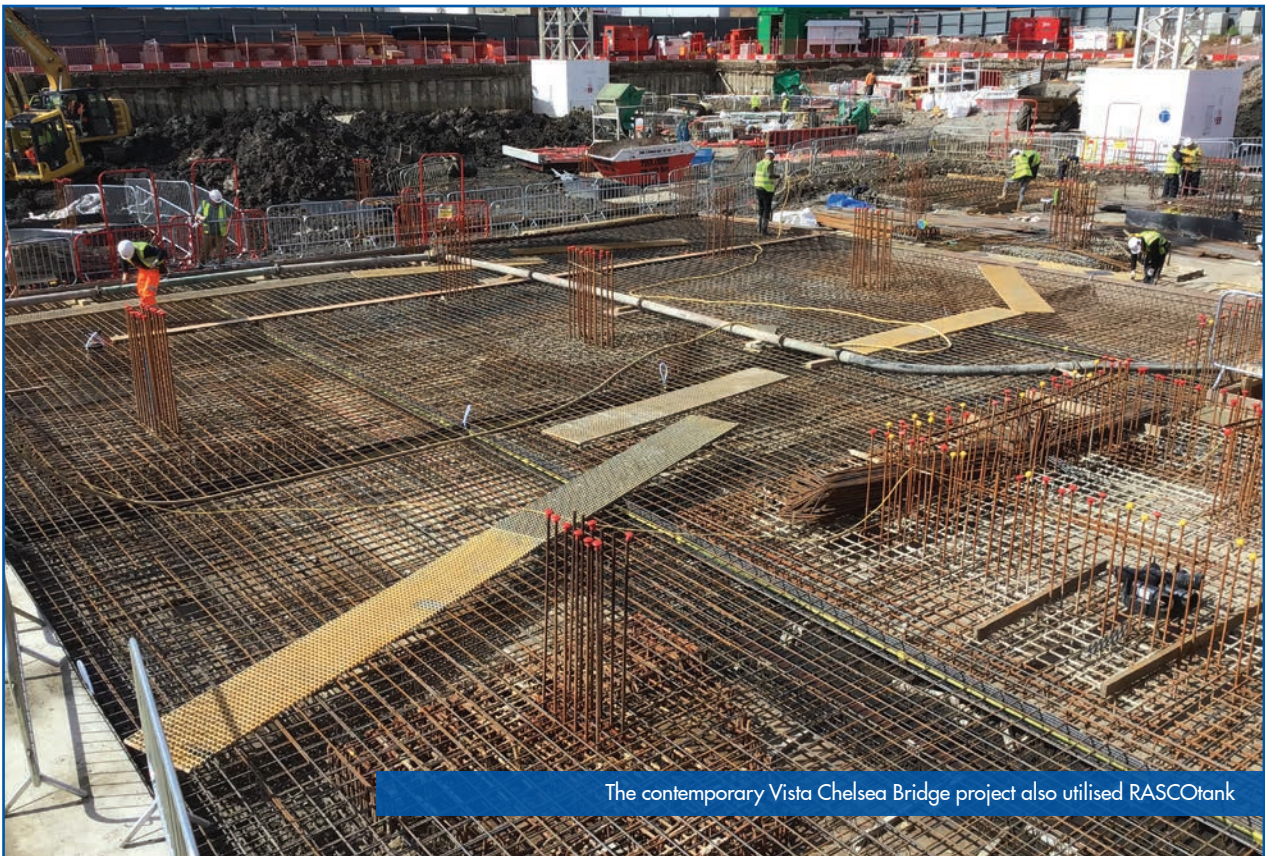
The system provides comprehensive “Type B” waterproofing in compliance with British Standard 8102:2009. Furthermore, the system can be readily tailored for a wide range of applications:

- Residential developments
- Commercial construction
- Infrastructure projects
- Sewage treatment works
- Chemical industry facilities
- Potable water

### DESIGN

The success of any waterproof concrete basement solution depends on the proper coordination of the waterproofing between the concrete, the joints/ penetrations, and the detailing.

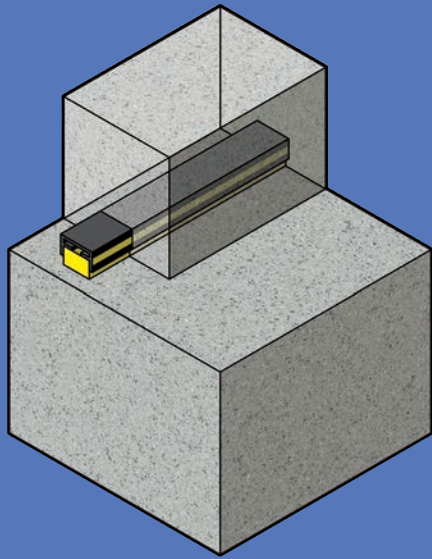
Once we have a clear idea of the required waterproofing performance, Newton and RASCOR’s design team will work with the client, the structural engineer, the architect and the contractor from the outset of the project to achieve the required waterproofing specification.



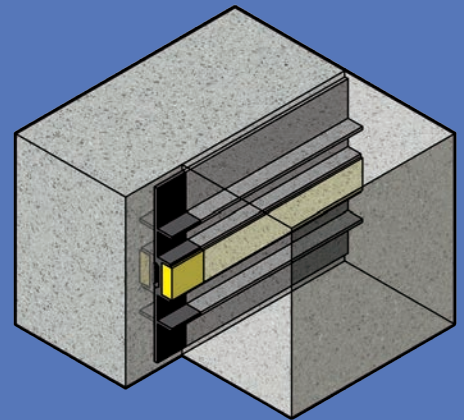
The contemporary Vista Chelsea Bridge project also utilised RASCOtank



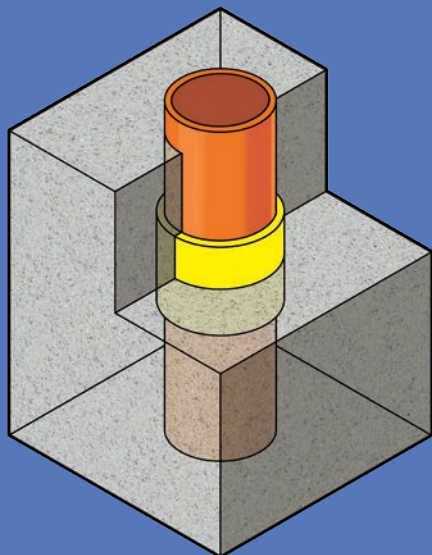
The various RASCOtec injection units provide waterproof seals at any crack or penetration in the concrete structure



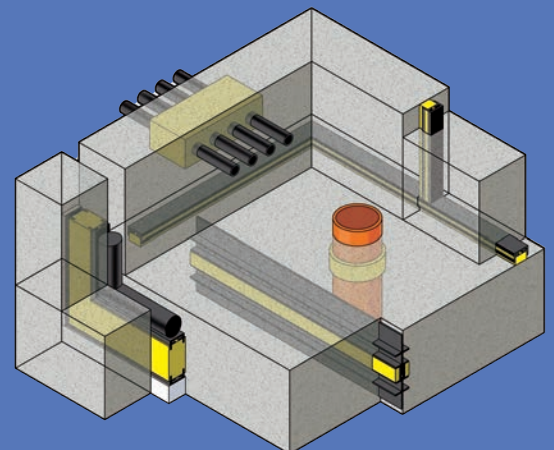
1. Injection Channel



2. Crack Inducer



3. Injection Collar



4. Injection System

# The White Tank Method

## How Does The System Work?

The RASCOtank system utilises the unique RASCOtec injection units for specific functions, which combine to provide a completely sealed concrete structure.

The patented units are deliberately placed at predetermined locations within the concrete pour, providing control over the locations of the inevitable cracks in the concrete.

### INJECTION CHANNELS

For the easy and dependable waterproofing of construction joints, fixed to the existing concrete fabric and cast in the following pour.

### CRACK INDUCERS

Ensuring controlled crack formation at predetermined locations, allowing uninterrupted casting of concrete bays of unlimited size.

### INJECTION COLLARS

Simple, reliable and permanent seals for penetrations of any size, shape or material.

### INJECTION GROUTS

Best-in-class grouting products for use with the channels, inducers and collars, automatically sealing the joint/crack and any adjoining cracks and honeycombing to provide a permanent waterproof barrier.



Crack-inducing, injectable waterbar installed within the reinforcing steel prior to the concrete pour



Vista Chelsea Bridge consists of two 6-16 storey buildings providing over 400 residential units

*Newton are the perfect match to RASCOR. Each company has vast knowledge and experience, and is an expert in their respective areas of waterproofing. This new partnership means that Newton and RASCOR will be able to offer the best waterproofing solution in any combination on any project for our UK clients, and will put us into a leading position in the UK market.*

Ruben Schmid, Executive Director of RASCOR International



Image by Hundven-Clements

# Complete Concrete Waterproofing

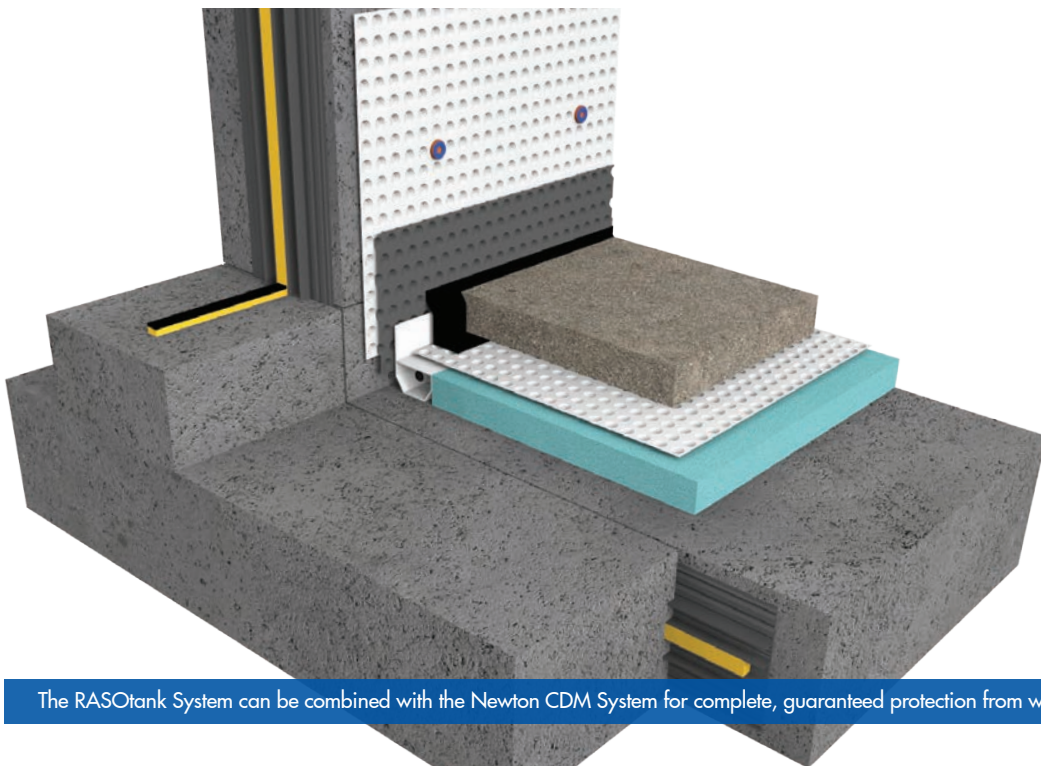
## What Are The Benefits?

By employing the RASCOtank system, thus optimising the concrete mix, design and placement, we deliver the following advantages:

- Faster construction time
- Increased financial savings
- Reduced programming on site
- Full design, manufacture, installation and warranty of the system
- Full responsibility for shrinkage cracks
- Engineering consultation for specific waterproofing issues
- All construction joints and penetrations catered for and waterproofed
- Waterproofing of the full sub-structure with the Newton RASCOtank system
- An insurance-backed collateral warranty for the waterproofing
- Full professional indemnity insurance for all of our designs and installations

Further cost savings are also delivered by the elimination of movement joints, the reduction in construction joints and reinforcement, and the increased pour sizes.

Finally, the installation will be supported with a single-point guarantee for the waterproofing of the basement, meaning no remedial waterproofing responsibility for the customer.



The RASCOtank System can be combined with the Newton CDM System for complete, guaranteed protection from water



# NEWTON RASCOtank

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