Sika®-1 Pre-Bagged WATERPROOFING SYSTEM

KEEPING IT OUT OR KEEPING IT IN
PUT WATER IN ITS PLACE

BUILDING TRUST

100 YEARS OF WATERPROOFING EXPERTISE AND EXPERIENCE

THE Sika®-1 Pre-Bagged STRUCTURAL WATERPROOFING SYSTEM HAS BEEN USED TO CONTROL WATER INGRESS ON NEW BUILD, AND REPAIR AND REFURBISHMENT PROJECTS WORLDWIDE.

Originally invented by Kaspar Winkler, the founder of Sika in 1910, Sika®-1 was a quick setting waterproofing admixture for mortar, which was used to waterproof the Gotthard Tunnel, enabling the Swiss railway company to electrify this important connection between Northern and Southern Europe.

Now available as a BBA approved structural waterproofing system the Sika®-1 Pre-Bagged Waterproofing System consists of watertight renders and screeds produced using the Sika®-1 Waterproofing Liquid and Sika®-1 Pre-Batched Mortars. The mortars consist of a blend of special cement and kiln dried graded aggregates. Packaged in 4 grades, each specifically designed for optimum application performance and durability.

NO ONGOING MAINTENANCE
Once applied there is no requirement for drainage products or equipment such as water pumps.

OTHER BENEFITS

- Withstand high water pressures
- Bonds to the substrate
- Hard-wearing surface
- Follow contours of structures
- 100-year track record
- Can be used to achieve Grades 1-3 according BS 8102-2009
- Suitable for high water table according to BS 8102-2009
- Drinking water inspectorate approved ref no. 56.4.94
- BBA approved
- Sika offers a guarantee when the product is installed by a registered contractor.

TYPICAL APPLICATIONS

THE Sika® -1 Pre-Bagged WATERPROOFING SYSTEM FULLY PROTECTS ABOVE AND BELOW GROUND STRUCTURES FROM WATER INGRESS, eliminating the need for the maintenance of any internal drainage or pumping system associated with some other solutions.

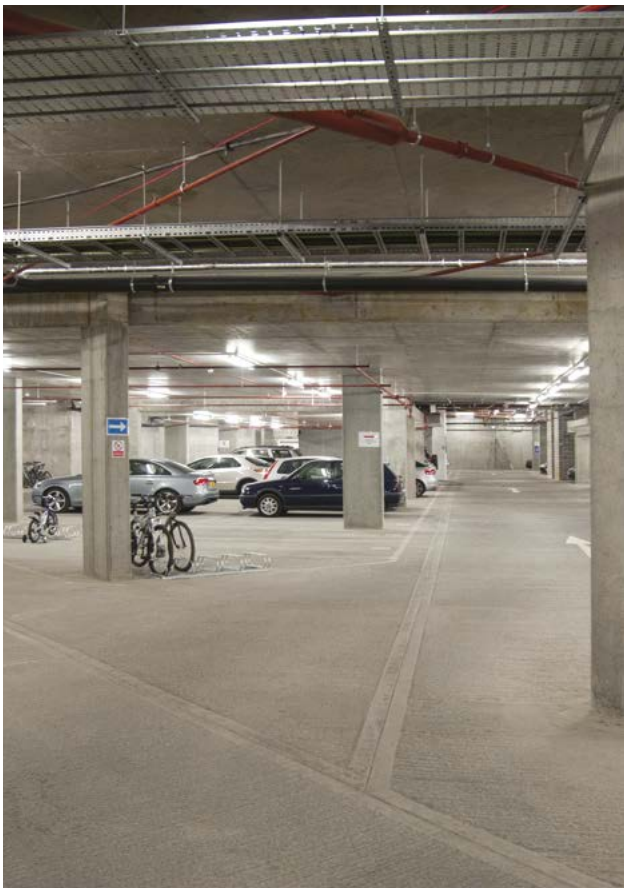
Suitable for virtually any application, the system provides an effective watertight seal for structures that must keep water out and structures that must keep water in.

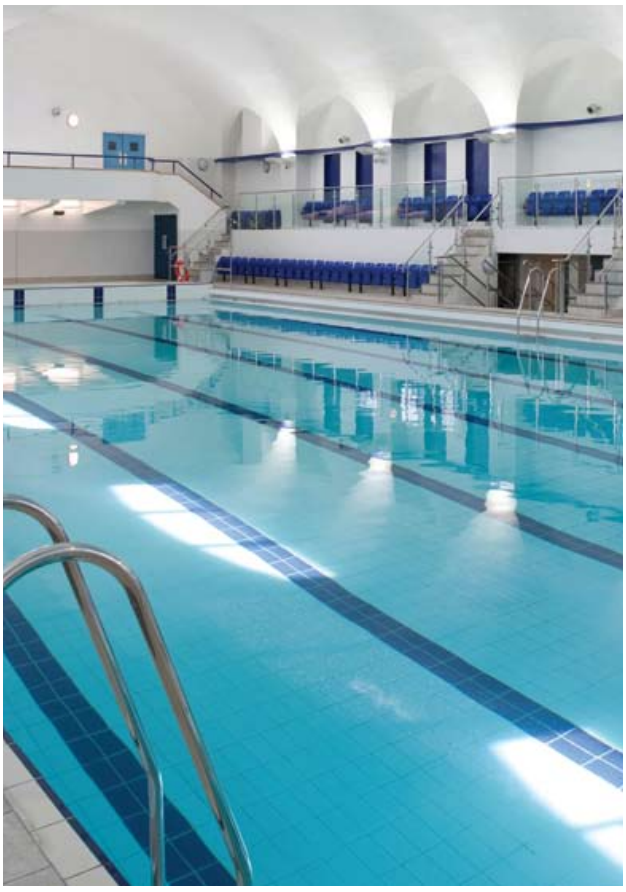
KEEPING WATER OUT

- Basements
- Car parking
- Underground stations
- Subways
- Pavement vaults
- Cellars
- Tunnels

KEEPING WATER IN

- Reservoirs
- Waste water treatment plants
- Containment bunds
- Swimming pools
- Sewers and pipes
- Ponds





PROJECT:

ASHMOLEAN MUSEUM

The Sika®-1 Pre-Bagged Waterproofing System was used in Ashmolean Museum, which is part of Oxford University. The system was specified to provide waterproofing for the basement areas and to protect the priceless artefacts they contain. The waterproofing was specified to BS8102: 1990 Grade 4 – the highest recognised standard of waterproofing protection.

PROJECT:

HUGO BOSS

The Sika®-1 Pre-Bagged Waterproofing System provided the perfect seal for over 30 vaults, situated around the basement of the 10,000 sq. ft. Hugo Boss flagship store on Sloane Square, London. To ensure the vaults were completely protected from any possible water ingress, Sika®-1 was specified along with Sika's advanced jointing system, Sikadur® Combiflex®. Certified by the British Board of Agrément (BBA), Sika®-1 meets the requirements of BS 8102 Grades 2, 3 and 4, with Grade 3 used to seal the Hugo Boss store.

BS 8102:2009 ADDITIONAL CONSIDERATIONS

CODE OF PRACTICE FOR THE PROTECTION OF BELOW GROUND STRUCTURES AGAINST WATER FROM THE GROUND.

Waterproofing of below ground structures and water retaining structures can only be achieved by careful design, the right choice of waterproofing materials plus professional workmanship with quality control on site.

The British Standard BS 8102:2009 describes different levels of watertightness required for the end use of a structure.

GRADE 1

BASIC UTILITY

Some seepage and damp areas tolerable*

- Underground car parks
- Plant rooms
- Workshops

*Dependent on use

GRADE 2

BETTER UTILITY

No water penetration. Ventilation may be required

- Underground car parks
- Storage areas
- Workshops
- Electrical plant rooms

GRADE 3

HABITABLE

No water penetration, totally dry environment

- Ventilated residential units and offices
- Restaurants and commercial areas
- Leisure facilities

ADDITIONAL REQUIREMENTS

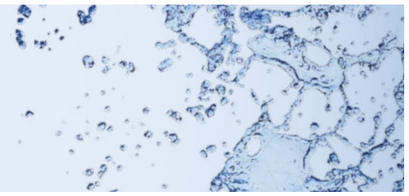
Consider internal environment required

- Air conditioning
- Ventilation
- Radon and methane protection
- Residential areas
- Computer rooms
- Archives
- Special purpose facilities and areas

Sika®-1 Pre-Bagged STRUCTURAL WATERPROOFING SYSTEM - HOW IT WORKS

Our guarantees are watertight...

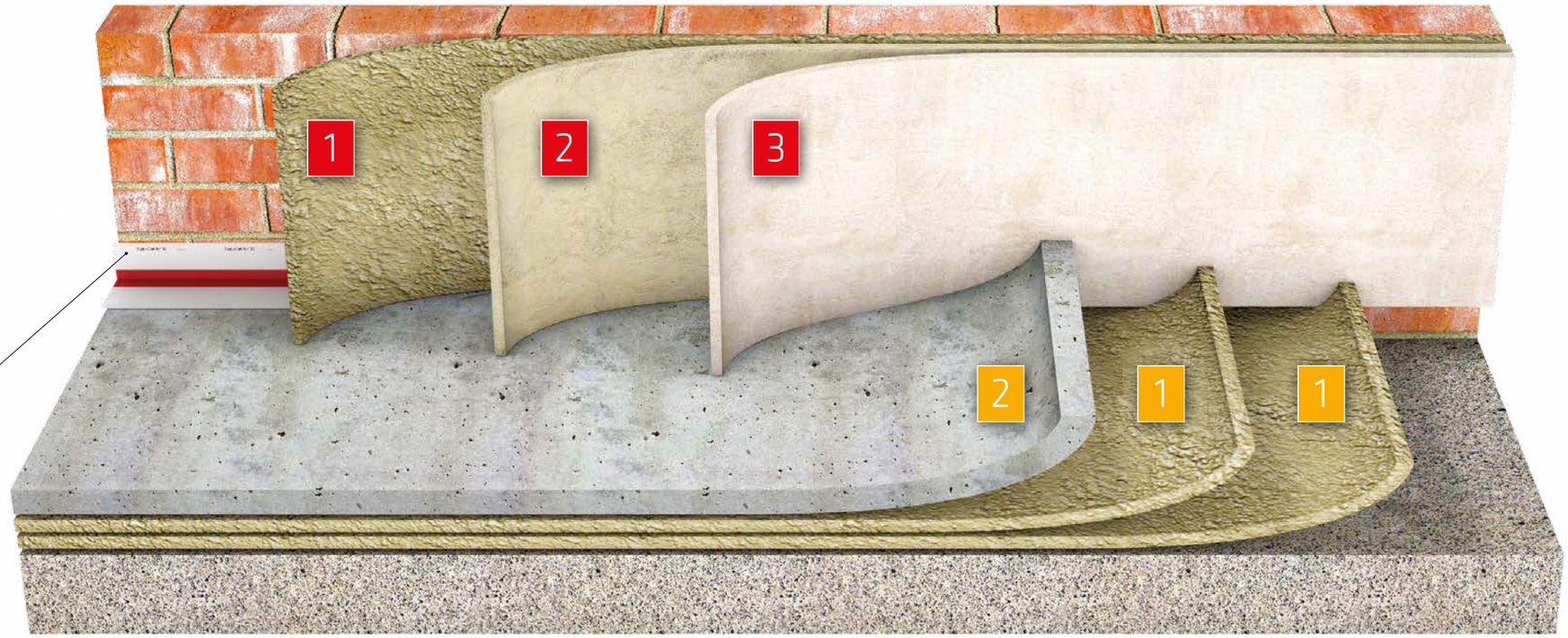
Sika offers a guarantee when the product is installed by a registered contractor.



THE Sika®-1 Pre-bagged WATERPROOFING SYSTEM CONSISTS OF A RENDER SYSTEM FOR USE ON WALLS AND OVERHEAD SURFACES, AND A SCREED SYSTEM FOR USE ON THE FLOOR.

The system mortars are pre-bagged kiln dried blends of specially graded aggregates and cements packaged in 4 grades at the appropriate mix ratios for optimum application, performance and durability. When mixed with the diluted Sika®-1 Liquid Waterproofing Admixture they provide the multicoat components for the structural waterproofing systems.

Sikadur® Combiflex®



Sika®-1 Waterproofer

Sika®-1 Screed 3-Coat System

1 **Sika®-1 Spritz & Bonding Coat Mortar**

2 **Sika®-1 Screed Mortar**

Sika®-1 Render 3-Coat System

1 **Sika®-1 Spritz & Bonding Coat Mortar**

2 **Sika®-1 Render Mortar**

3 **Sika®-1 Finishing Mortar**

COMPLEMENTARY WATERPROOFING PRODUCTS

THE Sika®-1 Pre-Bagged WATERPROOFING SYSTEM CAN BE COMBINED WITH A RANGE OF COMPLEMENTARY PRODUCTS FOR A COMPREHENSIVE WATERTIGHT SOLUTION.

Sikalastic®-1K
Flexible Fibre Reinforced Mortar

Sikalastic®-1K is a one component, flexible, fibre reinforced mortar, based on cement modified with special alkali-resistant polymers. It also contains fine fillers, selected graded aggregates, plus special waterproofing additives to produce a flexible mortar that is ideal for waterproofing surfaces subject to flexural strain.

Used for: Protection of concrete surfaces according to BS EN 1504-9, general waterproofing of concrete surfaces and structures including tanks, basins and pipes, internal waterproofing of walls and floors, flexible protection coating for reinforced concrete structures against the effects of de-icing salts, freeze-thaw and carbon dioxide.

- Can be applied on damp substrates
- Good sag resistance and easy to apply
- Good crack-bridging properties
- Mixing ratio can be adjusted in order to obtain workability desired

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Sika® Damp-proofing Slurry
Cementitious Waterproof Coating

Sika® Damp-proofing Slurry is a one part polymer modified cement-based waterproof coating comprising of special cement based components and admixtures. When mixed with water, a slurry or mortar material is produced for direct application to a variety of construction substrates.

Used for: Waterproof coating for tanking residential/domestic basements, thin layer mortar or slurry coating/lining, waterproofing/damp-proofing of interior and exterior structures, lining of water tanks, pools, planters etc.

- Low odour compared to bitumen coatings
- Just add water
- Protects against water penetration
- Non-toxic

SikaMur® InjectoCream-100
Water Repellent Cream

SikaMur® InjectoCream-100 is a new water repellent cream used for the control of rising damp. It is inserted into a series of holes drilled into a mortar course of the masonry by means of a simple application gun – no special injection pump required. Once injected, SikaMur® will diffuse within the damp wall to form a water repellent barrier and block future rising damp.

Used for: Treating rising damp in almost all types of masonry walls – solid brick, cavity, random form stone and rubble infill walls, etc.

- Fast and easy to install – one-component, ready to use
- No need for preliminary watertight sealing around the injection holes
- Does not require a special, expensive pump
- No risk of increased efflorescence (as with siliconate-based rising damp treatments)

SikaTop® Seal-107 Standard
Cementitious Waterproof Mortar Slurry

SikaTop® Seal-107 Standard is a two part polymer modified cementitious waterproof mortar slurry comprising of a liquid polymer and a cement based mix incorporating special admixtures.

Used for: Interior and exterior waterproofing and damp-proofing, protection of concrete structures against effects of de-icing salts and freeze-thawing, rigid waterproofing of basement walls, pore/blowhole filling, waterproofing of drinking water reservoirs, levelling mortar for concrete repair works.

- No water required
- Very good adhesion
- Protects concrete against carbonation and water penetration
- Non-corrosive to steel or iron
- Overpaintable

SikaDur® Combiflex® System
The Sikadur® Combiflex® System is a high performance joint sealing system consisting of sealing strips and an epoxy adhesive. This system is renowned worldwide for proven performance in sealing difficult joints and/or cracks in all types of watertight and retaining structures. It is particularly useful in watertight basement construction and can be applied both internally and externally to meet the specific project's requirements.

- Easily adaptable to the construction programme
- Easy to adapt to complicated construction details
- Simultaneous additional crack repairs are possible
- Damage or leaks can be repaired externally or internally
- Easy to control the application because it is visible
- Can be used on various substrates including concrete, brick and steel

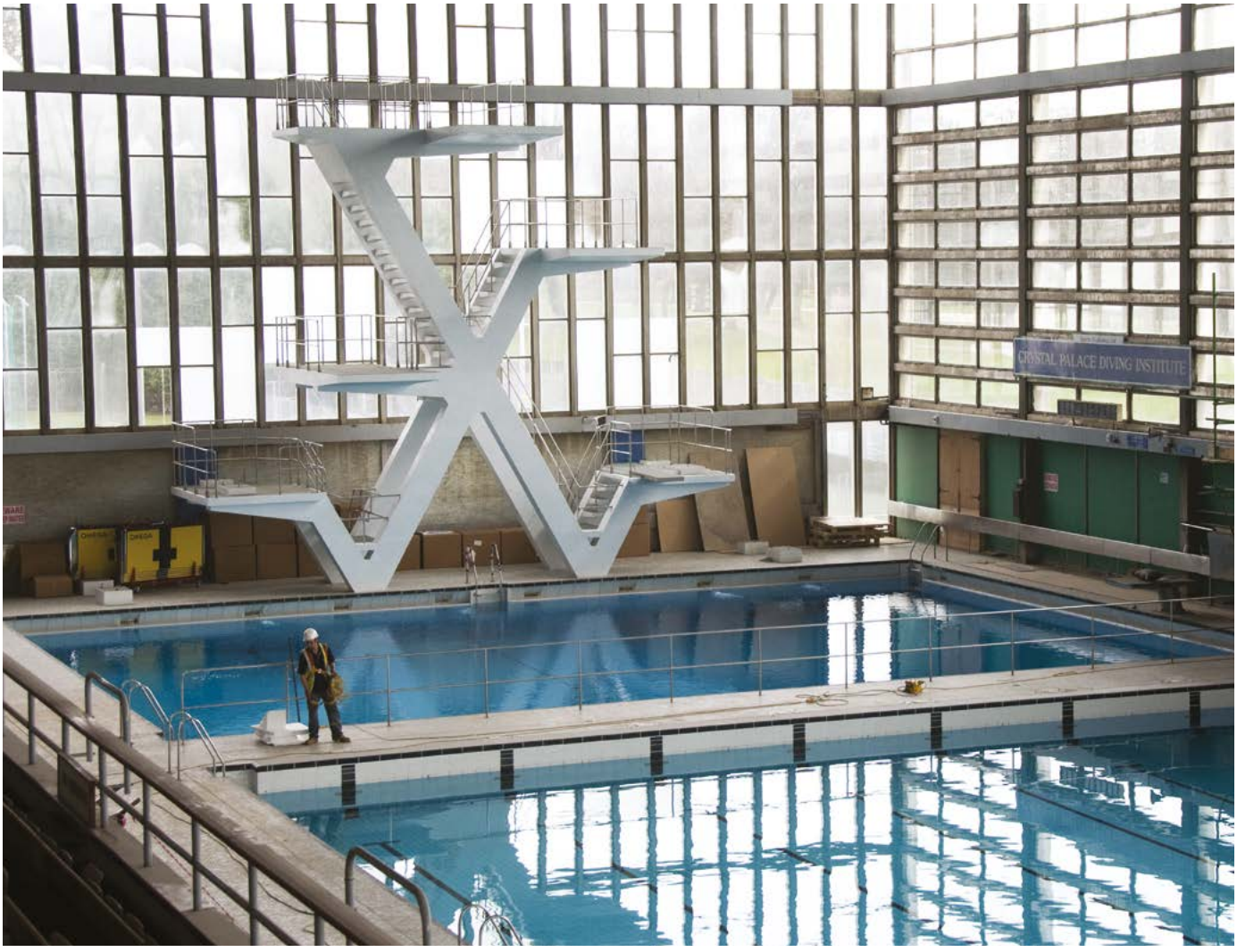
SYSTEM COMPATIBILITY

THE Sika®-1 Pre-Bagged WATERPROOFING SYSTEM CAN BE USED IN CONJUNCTION WITH A NUMBER OF OTHER WATERPROOFING SOLUTIONS to provide an integrated approach, one where different solutions are combined and used to their strengths to create a highly robust waterproofing strategy.

COMPATIBLE SYSTEMS INCLUDE:

- Sika® Watertight Concrete System
- Sika® Cavity Drainage System (Type C system)

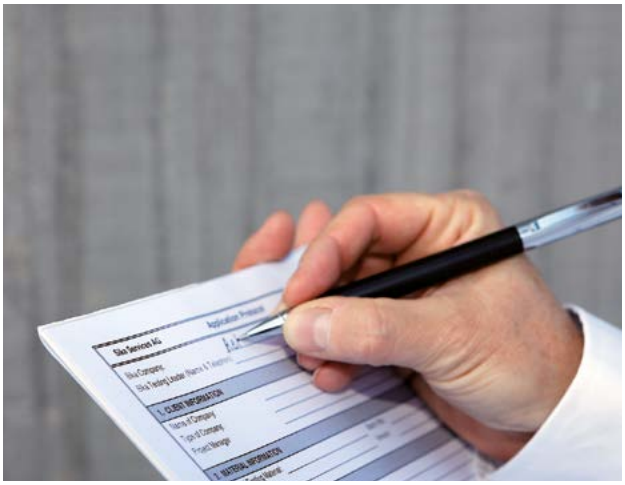
PROJECT:
CRYSTAL PALACE NATIONAL SPORTS CENTRE



SIKA SUPPORT

TECHNICAL SUPPORT

SPECIFICATION SUPPORT

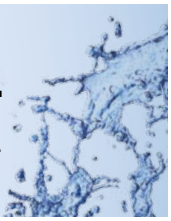


SITE SUPPORT

MAINTENANCE SUPPORT

Our solutions deliver performance that really holds water.

Discover more at **www.sikawaterproofing.co.uk** and start putting water in its place.



THE SIKA REGISTERED WATERPROOFING CONTRACTOR SCHEME

DESIGNED TO RAISE STANDARDS ACROSS THE SECTOR, this scheme offers total quality control from product to service and installation, granting clients complete peace of mind with a wholly professional service nationwide.

The need to reduce the risk of poor installations that lead to costly repair works or even irreparable damage – has given rise to this scheme. In order to qualify as a Sika Registered Waterproofing Contractor, installers have to complete the strict Sika application assessment. This includes demonstrating they have the correct documentation and paperwork in place including an appropriate health and safety policy, as well as an assessment involving site visits to carry out a detailed inspection and assessment of operatives.

REGISTERED
WATERPROOFING CONTRACTOR
Sika®-1 Pre-Bagged System

Being a registered contractor is not as simple as a one off assessment, once passing the initial assessment, contractors will continue to be assessed on a regular basis to ensure they maintain the high standards required to be a Sika Registered Waterproofing Contractor. This gives you the peace of mind that Sika Registered Waterproofing Contractors will install Sika Waterproofing Systems safely and to a high standard.

THE BENEFITS OF USING A SIKA REGISTERED WATERPROOFING CONTRACTOR

- By choosing a Sika Registered Waterproofing Contractor, you can be sure of excellent standards of materials and workmanship
- A Sika Registered Waterproofing Contractor will set your mind at ease, knowing that their operatives are fully trained and assessed
- Waterproofing Contractors registered by Sika are assessed on a regular basis to ensure that they are competent and capable of meeting the relevant technical and safety standards, codes of practice and rules of the Schemes they are registered to
- The Sika Registered Waterproofing Contractor Scheme is also very innovative, and those taking part are quick to develop the best new methods and practices to assure the highest quality services at all times

REGISTERED CONTRACTOR DETAILS:

BOSA Contracts Limited

Tel: 01482 534211

Email: mail@bosacontracts.co.uk

Web: www.bosacontracts.co.uk

BOSA CONTRACTS LTD

SIKA FULL RANGE SOLUTIONS FOR CONSTRUCTION:

WATERPROOFING

CONCRETE

REFURBISHMENT

MERCHANT

SEALING AND BONDING

FLOORING

ROOFING

INDUSTRY

FOR MORE INFORMATION:

Visit **www.sikawaterproofing.co.uk**

WHO WE ARE

Sika Limited and Sika Ireland Limited are part of the global Sika Group, specialising in the manufacture and supply of chemical based products. Sika have a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing, and protecting in the building sector and the motor vehicle industry. Sika has subsidiaries in 97 countries around the world and manufactures in over 190 factories. With over 17,000 employees Sika generates annual sales of CHF 5.75 billion (£4.69bn). We are also committed to providing quality, service, safety and environmental care.

In the UK and Ireland, we provide market-leading solutions for concrete, waterproofing, roofing, flooring, refurbishment, sealing & bonding, and industry, and have manufacturing sites in Welwyn Garden City, Preston, Leeds and Dublin with more than 700 employees and a turnover of more than £220 million.

The information, and, in particular, the recommendations relating to the application and end use of Sika® products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. Please refer to our homepage www.sika.co.uk for our current standard terms & conditions applicable to all orders. Users should always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request.

bsi. ISO 9001 Quality Management FM 12504 | ISO 14001 Environmental Management EMS 45308 | OHSAS 18001 Occupational Health & Safety Management OHS 585274

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BUILDING TRUST

CONCRETE & WATERPROOFING/SIKA-1 PRE-BAGGED BROCHURE JULY 2017