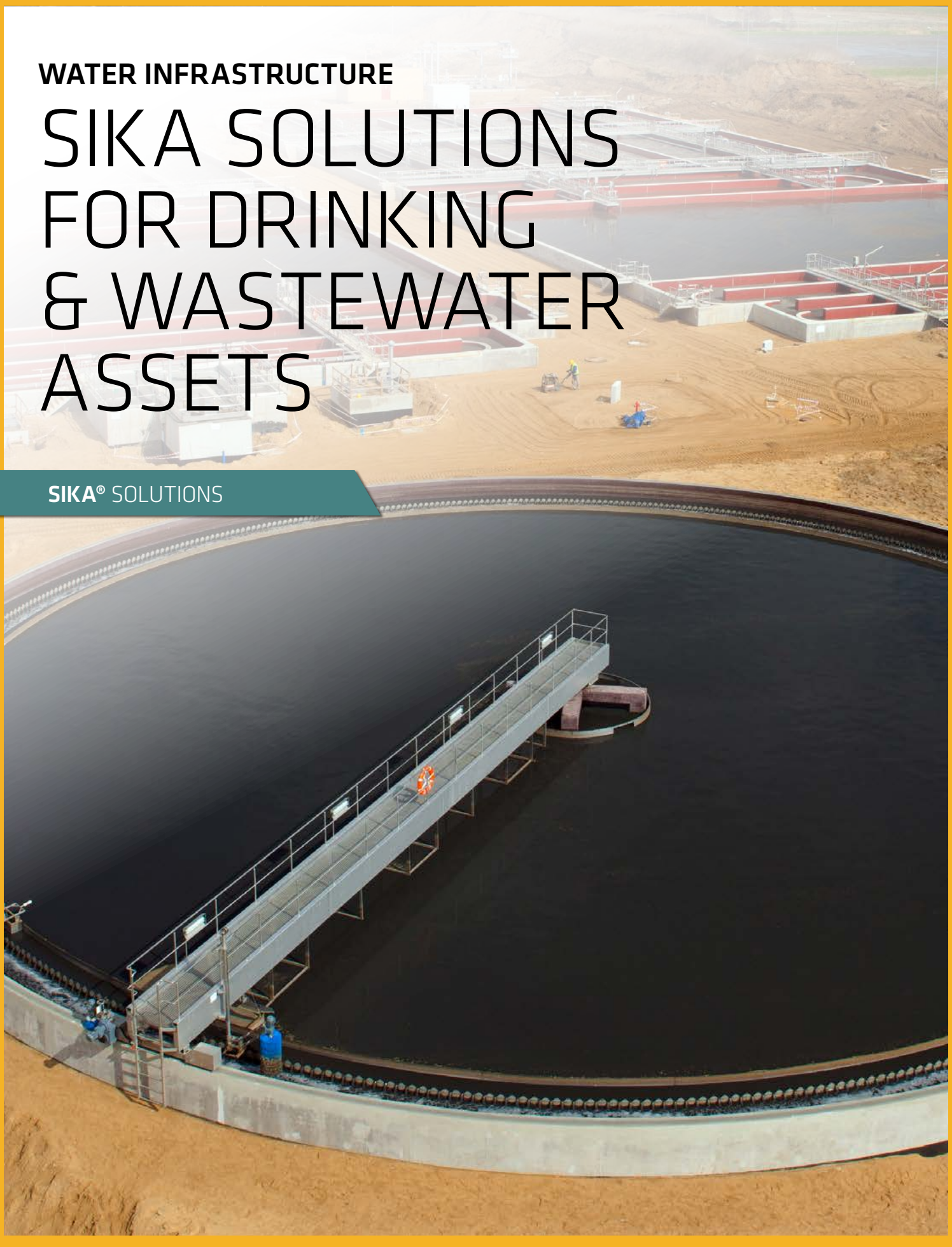
WATER INFRASTRUCTURE

SIKA SOLUTIONS FOR DRINKING & WASTEWATER ASSETS

SIKA® SOLUTIONS



BUILDING TRUST

YOUR TRUSTED PARTNER IN WATER SOLUTIONS

Sika is a globally recognised leader in construction chemicals and industrial solutions, operating in over 100 countries. In the UK, we are proud to be a major force, supporting critical infrastructure across the water sector with market-leading technologies, extensive technical expertise, and a proven track record of success.

CONTENTS

WATER REGULATOR **OFWAT** HAS APPROVED ENGLAND AND WALES' WATER COMPANIES COMBINED **£104BN INVESTMENT PLANS** FOR THE EIGHTH ASSET MANAGEMENT PERIOD (AMP8), BETWEEN **2025 AND 2030**

MEETING THE UNIQUE CHALLENGES OF THE UK'S WATER SECTOR

Today, the UK water industry faces growing pressure: ageing infrastructure, increased demand on drinking and wastewater networks, and the drive toward Net Zero by 2050. Water companies are projected to invest over £104 billion between 2025-2030 under AMP8, with a significant focus on upgrading and extending the life of existing assets.

At Sika, we are fully aligned with these challenges, and ready to deliver durable, sustainable, and compliant solutions that help the industry meet its ambitious targets.

From drinking water reservoirs and pipelines to wastewater treatment facilities, Sika's comprehensive portfolio is engineered to tackle the sector's most urgent needs.

Today's water sector challenges:

- **Ageing Infrastructure:** Over 30% of assets are beyond their design life.*
- **Increased Demand:** A growing population and climate change are pushing capacity.
- **Net Zero Pressure:** Sustainability is now a non-negotiable – not just a target.
- **Regulatory Investment:** Over £104 billion committed under AMP8 (2025–2030).

*Water UK

READY FOR **AMP8 AND BEYOND**

Sika's proven systems and trusted expertise are ready to help you meet the performance, sustainability, and delivery demands of AMP8 and beyond.

BOOK A CPD WITH AN EXPERT

Whether you're working on clean water facilities, wastewater treatment plants, or both, our technical team can tailor a session to suit your specific needs.

Register here

WHY PARTNER WITH SIKA?

Full solution portfolio

Sustainability built-in

Return to service, fast

Technical & specification

Expert contractor training

Guarantees you can trust

DRINKING WATER CHALLENGES

PROTECTING DRINKING WATER, MEETING NET ZERO GOALS

Drinking water assets – from reservoirs to tanks – face unique problems like soft water attack, rapid return to service demands, and strict potable water regulations (Regulation 31).

Drinking water challenge:

- Ageing reservoirs in poor condition, with widespread soft water erosion.
- Tight operational pressures: downtime must be minimised.
- Need for Net Zero-aligned, low-carbon solutions.
- Development of 10 new reservoirs and major new water transfer schemes.*

*Water UK

SIKA'S SOLUTION

- Specialist Regulation 31 approved repair mortars, coatings, and joint sealant waterproofing systems.
- Technologies designed for fast return to service without compromising water quality.
- Low-carbon materials extending asset life while supporting Net Zero strategies.

Click here to find out more about our solutions for drinking water

FAST RETURN TO SERVICE

with Regulation 31 approved Sika products

WASTEWATER CHALLENGES

COMBATTING CORROSION AND BIOGENIC ATTACK

Wastewater environments can be harsh – structures face constant chemical exposure, biogenic sulphuric acid attack, abrasion, and moisture cycling.

Biogenic corrosion occurs when bacteria in wastewater produce hydrogen sulphide gas that turns into sulphuric acid on concrete surfaces, gradually eating away the concrete and steel reinforcement.

Wastewater challenges:

- Over 30% of UK wastewater assets are already beyond design life.
- Biogenic corrosion dramatically reduces asset life without intervention.
- Repair of over 2,000 km of pipes.
- Maintenance of over 7,000 wastewater plants.

Source of statistics: Water UK

SIKA'S SOLUTION

- High-performance concrete repair, corrosion inhibitors, and advanced coatings designed for extreme chemical environments.
- Systems that resist biogenic sulphuric acid and extend asset life.
- Sustainable refurbishment systems reduce carbon footprint versus full rebuilds.

Click here to find out more about our solutions for wastewater

Without protection, biogenic corrosion is a major cause of concrete structure lifespan deterioration

CASE STUDY PROJECT – SOUTH EAST WATER

KENT'S CLEAN WATER **RESERVOIR**

THE CHALLENGE

The service reservoir in Kent required the removal and replacement of its existing waterproof coating. Once the well-adhered coating was removed, the concrete surface was found to be heavily pitted in areas.

Key technical requirements included:

- A render with a fast return to service to restore the concrete to its original profile.
- A flexible cementitious membrane to protect all rendered surfaces.
- All materials to be Regulation 31 approved for use in contact with drinking water.

THE SOLUTION

Sika worked with Browne (contractor) and South East Water (owner) to deliver a watertight repair and protection system for the potable water reservoir.

Core technologies included:

- SikaTop® 586 Seal – applied by trowel at 3–10 mm depth to provide a level surface. Its fast return to service enabled the render to be overcoated within days.
- SikaTop® 588 Seal – applied by spray to the rendered surfaces. This rapid method covered large areas quickly, reducing project downtime. Resistant to erosion from treated drinking water, the flexible membrane ensured long-term durability.

FUTURE-PROOF STRUCTURES WITH SIKA®

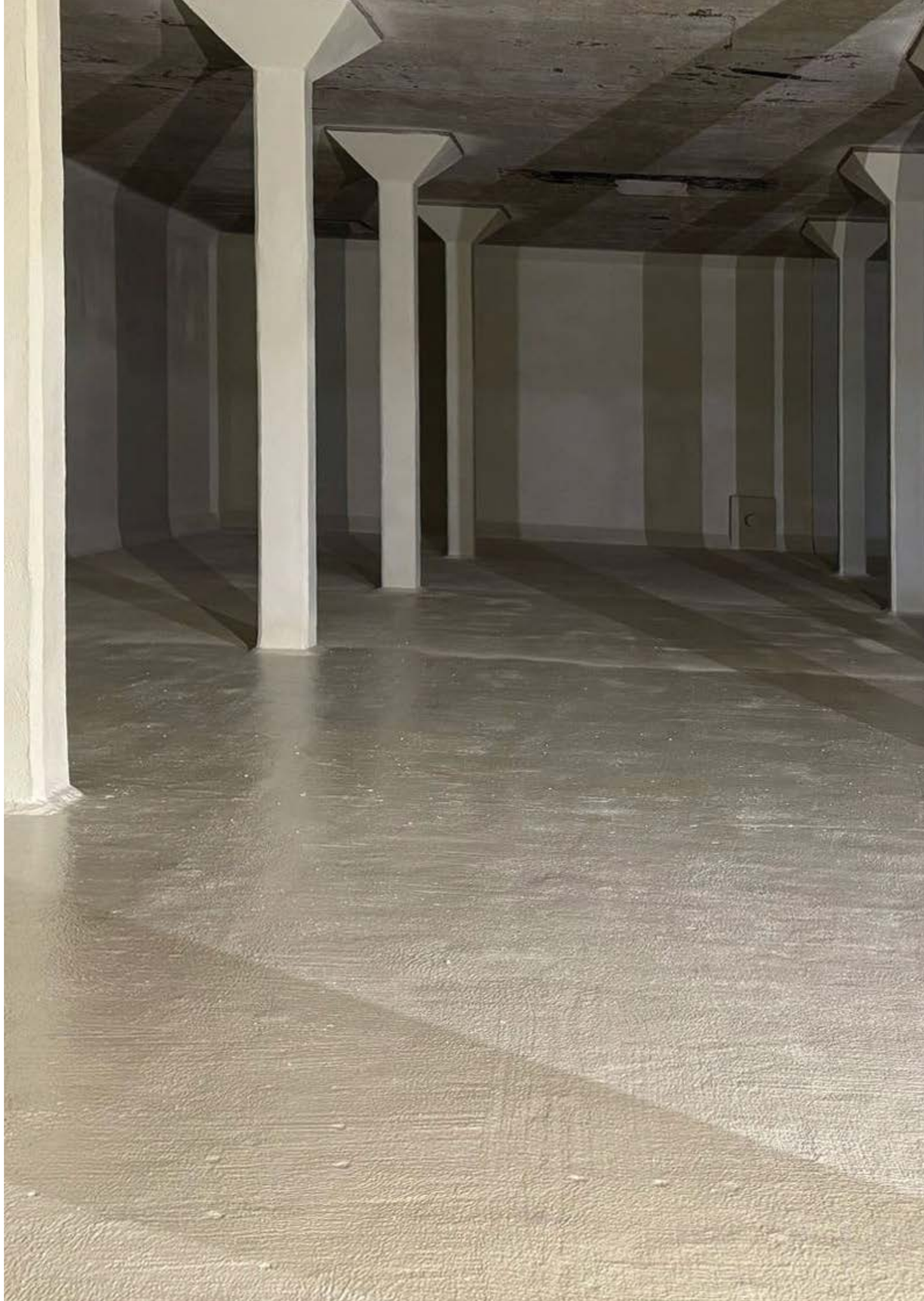
- SikaTop® 586 Seal provided a fast, reliable levelling render.
- SikaTop® 588 Seal ensured erosion resistance and long-term protection of the concrete structure.

ENVIRONMENTAL & SOCIAL IMPACT

- Safeguarded the integrity of a drinking water reservoir.
- Enabled rapid return to service, minimising disruption.
- Delivered a Regulation 31 approved system for potable water applications.

PROJECT PARTICIPANTS

Owner: South East Water
Contractor: Browne
Market Sector: Clean Water
Products: SikaTop® 586 Seal and SikaTop® 588 Seal



LONDON'S SUPER SEWER

THE CHALLENGE

London's Victorian sewage network, built in the 1860s for a population half its current size, could no longer cope with rapid growth and extreme rainfall. Around 40 million tonnes of untreated sewage were discharged into the Thames each year, harming water quality, biodiversity, and public spaces.

- Intercepting major combined sewer overflows (CSOs) responsible for 90% of pollution.
- Delivering a deep-level tunnel system capable of handling huge flow volumes.
- Ensuring watertightness, durability, and resilience for a 120-year service life.
- Integrating low-carbon materials and advanced admixtures to cut embodied CO_2.

THE SOLUTION

The Thames Tideway Tunnel – Europe's largest infrastructure project – comprises a 25 km, 7.2 m-diameter tunnel (up to 67 m deep), linked with the 7 km Lee Tunnel, creating a combined system with 1.6 million m^3 capacity (640 Olympic pools).

Sika played a key role from the project's inception, working alongside contractors, designers, and suppliers to deliver critical solutions:

- Low-carbon concrete innovations – admixtures enabled high GGBS mixes, achieving 20+ tonnes CO_2e savings for 450 m^3 pours, and over 125 tonnes saved across 5,000 m^3. Ultra-Low-Carbon mixes delivered up to 100 kg CO_2e savings per m^3.
- Advanced admixtures – including Sika ViscoFlow®-1000 (superplasticiser with long workability), Sika Plastiment®-180 (stabiliser/water reducer), and SikaTard® R (retarder/stabiliser), ensuring performance, durability, and sustainability.
- Waterproofing systems – Sikaplan® membranes, waterbars, waterstops, injection hoses, and backfill grout admixtures to secure long-term watertightness.
- Durability & protection – mortars and surface protection systems to enhance resistance to mechanical stress and temperature variation.

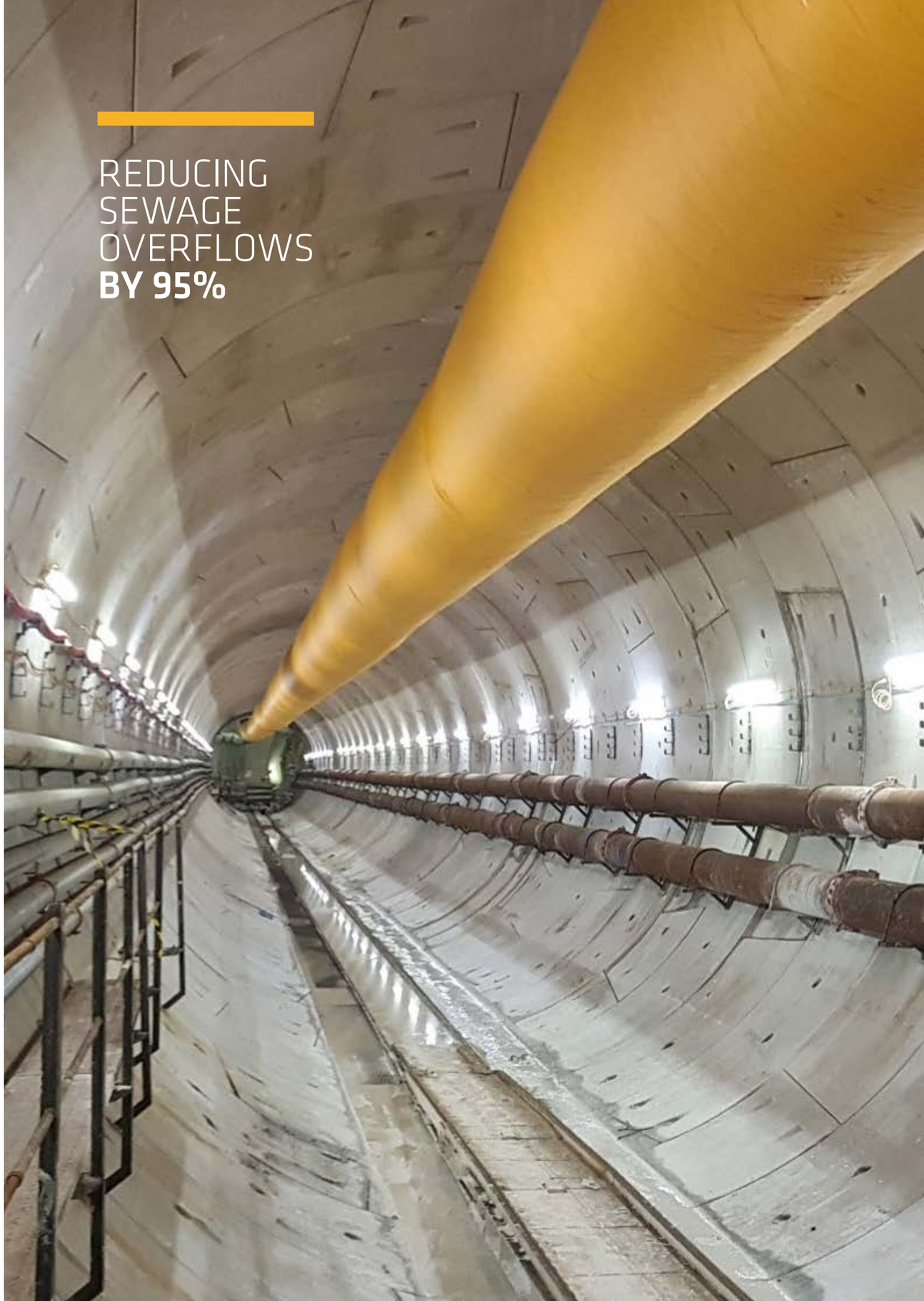
Now complete and operational, with official recognition including a royal opening by King Charles III in May 2025, the tunnel captures and diverts sewage during heavy rain, reducing overflows by 95%.

ENVIRONMENTAL & SOCIAL IMPACT

- Dramatically reduced sewage pollution – improving ecological health of the Thames.
- Supports biodiversity and cleaner water – safer for wildlife and urban recreation.
- Enhanced public spaces – reconnecting Londoners with their river.
- Embodied carbon savings – through sustainable concrete mixes and material efficiency.

SCALE & EXCELLENCE

- 21 construction sites across London.
- Nearly 25,000 people involved, totalling 40 million workhours.
- Budget: approx. CHF 5.6 billion (~£4.6 billion).



KEY WATER ASSETS

DRINKING WATER ASSETS

Protecting drinking water structures demands materials that are not only durable but also fully compliant for drinking water contact.

Sika offers specialist systems developed to meet stringent Regulation 31 standards, deliver fast return to service times, and support Net Zero ambitions by extending asset life sustainably. Structures may include:

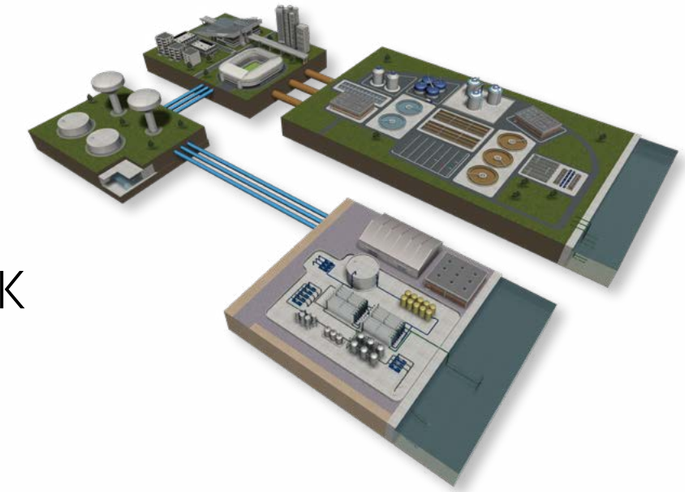
- Service Reservoirs
- Underground Reservoirs
- Contact Tanks
- Gravity-Fed Filters (GFFs)
- Rapid Gravity Filters (RGFs)
- Raw Water Holding Tanks
- Bolted Steel Tanks
- Water Towers

WASTEWATER ASSETS

Wastewater structures are exposed to some of the harshest conditions in the built environment.

Sika's proven solutions for aggressive wastewater environments deliver advanced chemical resistance, biogenic corrosion protection, and enhanced durability – safeguarding assets for the long-term, such as:

- Settlement Tanks
- Manholes
- Inlet Chambers
- Storm Tanks
- Sludge Tanks
- Pumping Stations
- Bunds and Chemical Treatment Areas
- Digesters
- Bolted Steel Tanks
- Cake Barns



THE WATER INDUSTRY IN THE UK TREATS NEARLY **16 BILLION LITRES** OF WATER DAILY

*Water UK

NEW BUILD SOLUTIONS

SIKA® SYSTEMS FOR DRINKING WATER AND WASTEWATER PROJECTS

1. Roof Waterproofing
2. Concrete Construction
3. Structural Waterproofing
4. Joint Sealant Waterproofing
5. Internal and External Coatings
6. Flooring

NEW BUILD SOLUTIONS

SIKA DELIVERS PROVEN SYSTEMS TO ENSURE NEW WATER ASSETS ARE COMPLIANT, RESILIENT AND BUILT FOR THE FUTURE.

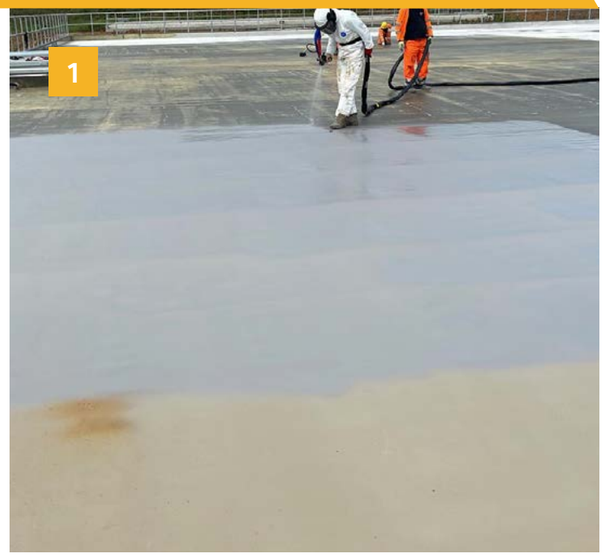
ROOF WATERPROOFING

Long-lasting protection from the top down

Sika's range of roof waterproofing systems includes single ply membranes, liquid applied membranes and bituminous membranes. Based on the specific requirements of each project, support is provided to choose the most suitable option.

For reservoirs, Sikalastic® hot spray and Sikaproof® A+ membranes deliver fully bonded, flexible protection.

To find the right solution for your project, **click here**



CONCRETE CONSTRUCTION

Built to last - watertight, compliant and sustainable

Sika Watertight Concrete System ensures watertight, Regulation 31-compliant structures without external membranes.

Admixture technologies reduce embodied carbon by up to 81% while maintaining performance and durability against soft water attack.

To find the right solution for your project, **click here**

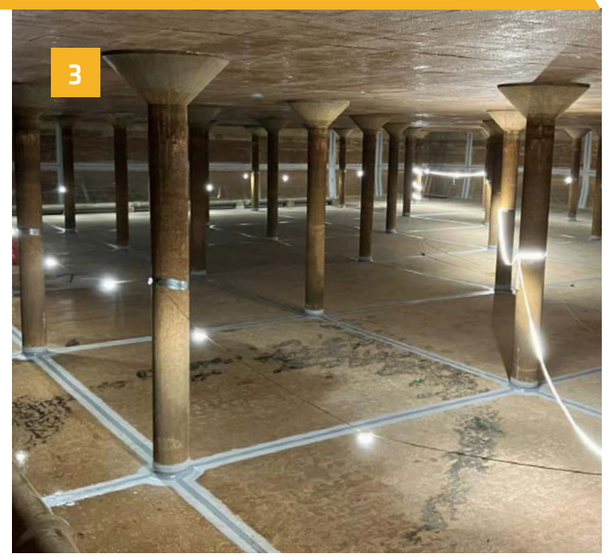
STRUCTURAL WATERPROOFING

Watertight by design

SikaProof® membrane systems provide fully bonded protection, eliminating lateral water migration and resisting hydrostatic pressure.

Complementary joint sealing solutions (SikaSwell®, Sika Waterbar, Sikadur Combiflex®) accommodate movement and maintain watertightness.

To find the right solution for your project, **click here**



JOINT SEALANT WATERPROOFING

Resilient, flexible, watertight sealing

Joints are often the weakest point in water infrastructure – especially in structures subject to thermal movement, chemical exposure, or dynamic loads.

Sika's flexible joint sealing systems, including Sikadur Combiflex® and Sikaflex® technologies, are trusted across the UK water sector for their long-term elasticity, chemical resistance, and adhesion. These systems ensure watertight expansion, construction, and pipe entry joints – even under aggressive wastewater conditions or in drinking water tanks requiring Regulation 31 compliance.

To find the right solution for your project, **click here**

NEW BUILD SOLUTIONS

INTERNAL AND EXTERNAL COATINGS

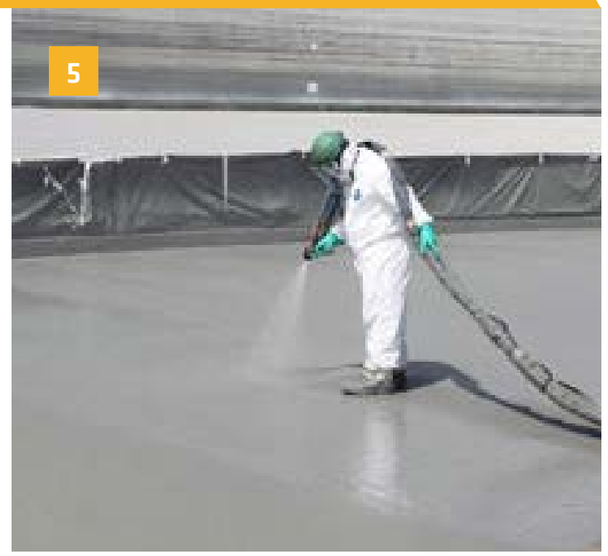
Engineered defence for harsh environments

Drinking water and wastewater assets must resist everything from soft water leaching in service reservoirs to biogenic sulphuric acid in digesters. Sika's multi-layer approach delivers proven, long-term protection:

- Sikagard® protective linings.
- Sikalastic® liquid-applied membranes.
- SikaTop® cementitious mortars.
- Sika MonoTop® specialist mortars.

These systems extend asset life, minimise downtime, and support sustainability targets through durable, low-maintenance performance.

To find the right solution for your project, **click here**



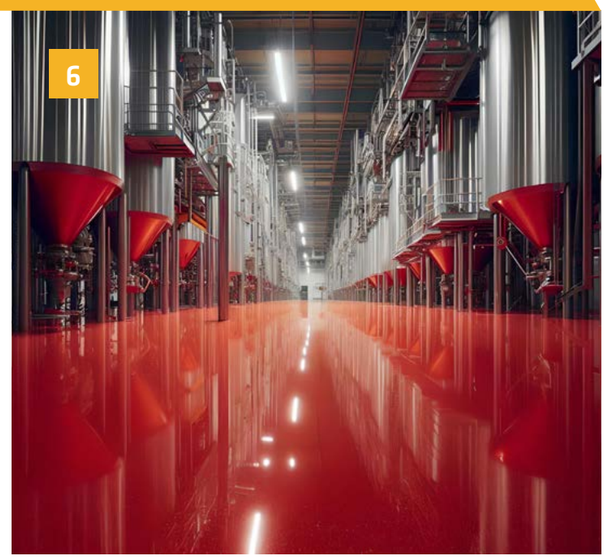
FLOORING

Safe, hygienic and chemically resistant solutions

Floors in treatment plants must be able to resist abrasion, water ingress, and aggressive chemical spillages – all while maintaining safety and hygiene.

Sika Ucrete® flooring systems resist chemical, thermal and mechanical loads while providing long-term hygiene and safety in bunds, dosing areas, labs and walkways.

To find the right solution for your project, **click here**



CASE STUDY PROJECT – GUILDFORD TREATMENT WORKS

ENSURING A NEW SEWAGE TREATMENT WORKS REMAINS **WATERTIGHT**

THE CHALLENGE

Guildford's existing sewage treatment works needed to be relocated to free up land for the Weyside Urban Village development, delivering up to 1,550 new homes while protecting the surrounding Green Belt. The new site – a former landfill – presented engineering complexities and environmental constraints.

Key technical requirements included:

- Above-ground primary settlement and activated sludge tanks with high watertight integrity.
- Durable, low-permeability concrete capable of withstanding long-term exposure to water and environmental stresses.
- Integration of in-situ concrete with large precast panels.

THE SOLUTION

Sika worked in close partnership with BAM Enpure JV (main contractor), Heidelberg Materials (concrete supplier), and Guildford Borough Council to deliver a watertight concrete system that met stringent Thames Water standards and regulatory requirements.

Core technologies included:

- **Sika® WT-200 P** crystalline waterproofing admixture – providing pore sealing, self-healing of microcracks, and long-term protection in 660 m^3 of concrete.
- **Sika® ViscoFlow-1000** – high-range water reducer improving workability, flow, and consistency, with up to 30% water content reduction.
- **Sika® Plastiment® 190** – water-reducing admixture enhancing density, strength, and resistance to permeability while minimising shrinkage.

ENVIRONMENTAL & SOCIAL IMPACT

- Supported sustainable community development by enabling the relocation of infrastructure away from valuable housing land.
- Enhanced durability to extend service life and reduce maintenance interventions.
- Provided watertightness without external membranes, reducing material usage and associated environmental impacts.

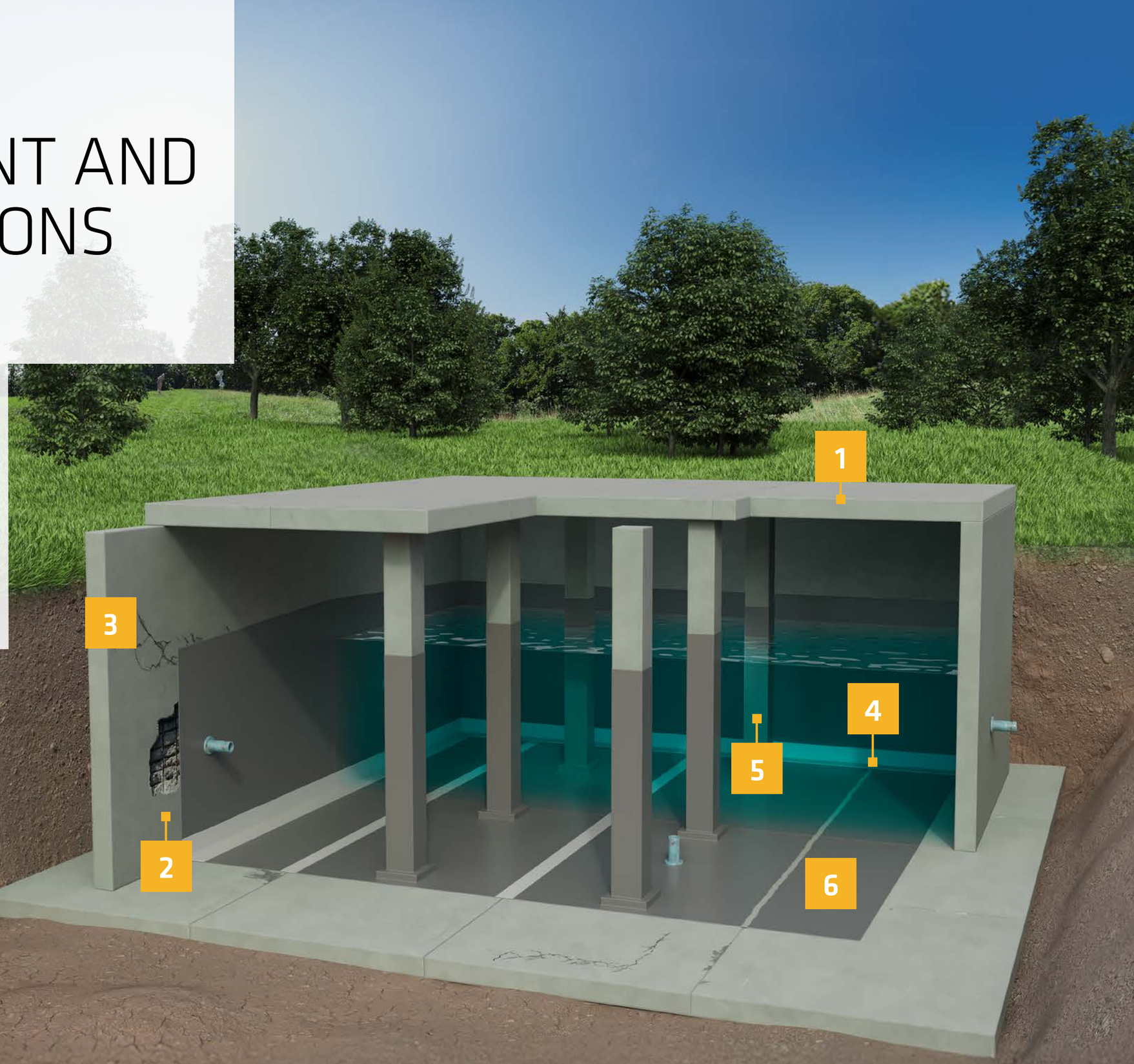
SIKA® WT-200 P ENHANCES THE SELF-HEALING PROPERTIES OF CONCRETE

FUTURE-PROOF STRUCTURES WITH **SIKA®**

REFURBISHMENT AND REPAIR SOLUTIONS

SIKA® SYSTEMS FOR DRINKING WATER
AND WASTEWATER PROJECTS

1. Roof Waterproofing
2. Concrete Repair
3. Structural Strengthening
4. Joint Sealant Waterproofing
5. Surface Waterproofing and Protection
6. Flooring



REFURBISHMENT & REPAIR SOLUTIONS

SIKA'S REPAIR, PROTECTION AND STRENGTHENING SYSTEMS
RESTORE PERFORMANCE AND REDUCE COSTLY REPLACEMENT.

ROOFING

Long-lasting protection from the top down

Refurbishing reservoir roofs may require extensive concrete and joint repair combined with a robust and durable waterproofing solution.

Sika's Sikalastic hot spray and Sikaproof A+ membrane systems form fully bonded waterproofing solution with high durability and crack-bridging capability. These systems are engineered for full compatibility with Sika's Monotop repair mortars, Sikadur Combiflex joint sealing system, and Sikaflex sealants, ensuring optimal resistance against water ingress and environmental contaminants to preserve structural integrity.

To find the right solution for your project, **click here**

CONCRETE REPAIR

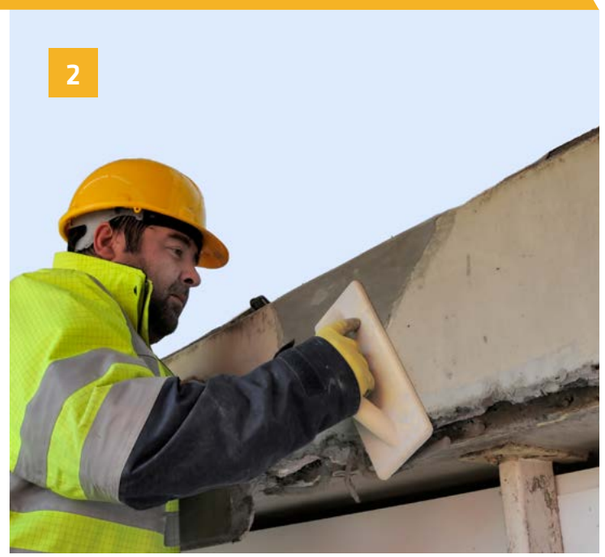
Restore, reinforce and extend service life

Ageing infrastructure is a defining challenge for the UK water industry – and deteriorated concrete is often at the heart of the problem. Sika offers a full range of repair solutions to restore structural integrity, improve durability, and reduce future maintenance cycles.

Sika MonoTop®, SikaEmaco® and SikaTop® mortars provide high-build, low-shrinkage repairs that are fully compatible with both drinking and wastewater environments.

Sika's repair systems deliver excellent adhesion, high resistance to chemical and mechanical attack, and are available in Regulation 31 complaint formulations for potable water use.

To find the right solution for your project, **click here**



STRUCTURAL STRENGTHENING

Strength where it's needed most

For older assets under increased load or suffering from structural degradation, strengthening can be a cost-effective alternative to full replacement. Sika's range of retrofit strengthening systems provide proven reinforcement for reservoirs, tanks, towers, chambers and bunds.

Sika carbon fibre systems provide lightweight strengthening for tanks, reservoirs, tunnels and treatment facilities, even in wet or aggressive conditions.

To find the right solution for your project, **click here**

JOINT SEALANT WATERPROOFING

Long-term, flexible, chemical resistant remedial crack and joint sealing solutions

Much of the UK's ageing concrete infrastructure is now failing due to continuous thermal movement and chemical exposure, resulting in large cracks in walls and floors.

Sikaflex®, Sikasil® and Sikadur Combiflex® joint sealing systems provide watertight crack and joint repair, extending service life in aggressive environments and potable water tanks.

To find the right solution for your project, **click here**

REFURBISHMENT & REPAIR SOLUTIONS

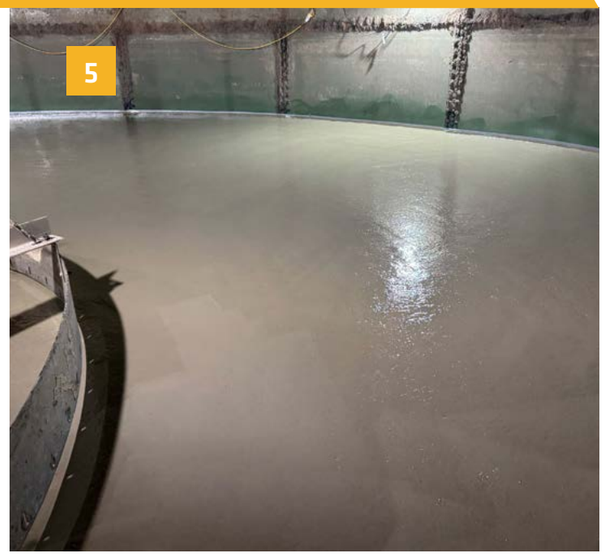
SURFACE WATERPROOFING AND PROTECTION

Protect, shield and sustain asset integrity

Environmental exposure, fluctuating moisture levels and chemical attack can rapidly degrade the surface of water infrastructure assets – accelerating loss of function and increasing maintenance costs.

Sikagard® coatings, Sikalastic® membranes, seal pores, bridge cracks and protect against deterioration – supporting cost-effective refurbishment over replacement.

To find the right solution for your project, **click here**



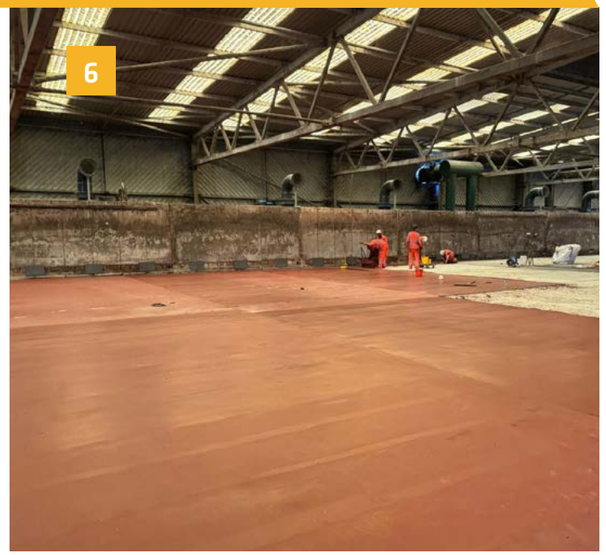
FLOORING

Safe, hygienic and chemically resistant solutions

Sika offers a wide range of advanced flooring solutions that are ideally suited for the water industry, including wastewater treatment plants, water supply facilities and related infrastructure.

High-performance flooring solutions include Sikafloor® epoxy, Sika Ucrete® systems and Xolutec® technology, delivering chemical resistance, hygiene and long-term protection in water facilities.

To find the right solution for your project, **click here**



CASE STUDY PROJECT – THAMES WATER

THAMES WATER **TANK BASE** REFURBISHMENT

THE CHALLENGE

Thames Water identified failure of a protective screed and coating system within a wastewater tank base. The original lining had broken down due to poor surface preparation, leaving the structure vulnerable to water ingress and chemical attack. A refurbishment solution was required to reinstate the tank, protect against future deterioration, and minimise operational downtime.

Key technical requirements included:

- Removal of defective coatings and reinstatement with a high-performance lining system.
- Vapour-permeable protection to accommodate residual moisture beneath the slab.
- Long-term chemical resistance in aggressive wastewater conditions.
- Quality assurance throughout – surface preparation, adhesion, thickness, and pinhole detection.
- Completion within a two-week programme to limit service disruption.

THE SOLUTION

Sika worked in close partnership with specialist contractor Corroless Eastern Limited to deliver a fast, durable refurbishment programme.

Core technologies included:

- Sikagard® P770 primer – providing excellent substrate adhesion and sealing.
- Sikagard® M790 – a crack-bridging, vapour-permeable protective coating applied in two contrasting colours to ensure full coverage.
- Sikaflex®-403 Tank & Silo – reinstated at joints and transitions to deliver continuous watertightness.

Robust QA measures were implemented, including moisture testing, surface profiling, wet film thickness checks, and spark testing for pinholes.

BENEFITS & OUTCOME

The full system was installed and tested within a two-week programme, with inspection confirming performance standards. Sikagard® M 790 provided a crack-bridging, vapour-permeable, chemically resistant lining that guards against wastewater exposure and potential moisture entrapment beneath the slab. The tank was swiftly returned to full operational use.

Products: Sikagard® M 790, Sikagard® P 770, Sikaflex-403 Tank & Silo

COMPLETED WITHIN **TWO WEEKS**

The Sikagard® M790 system provided a high-performance, long-lasting solution that offers excellent resistance to wastewater environments while mitigating moisture entrapment.

FUTURE-PROOF STRUCTURES WITH **SIKA®**

CASE STUDY PROJECTS

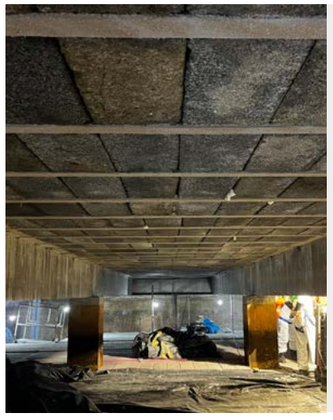
SIKA AT WORK

PROJECT REFERENCES

ANAEROBIC DIGESTER, SUFFOLK

Discover how Sika's Sikagard® P-770 & M-790 provided a reliable, weather-tolerant solution for external repairs, ensuring rapid completion under tight timelines and challenging conditions.

Click here to read full case study



PITFODELS DISTRIBUTION SERVICE RESERVOIR

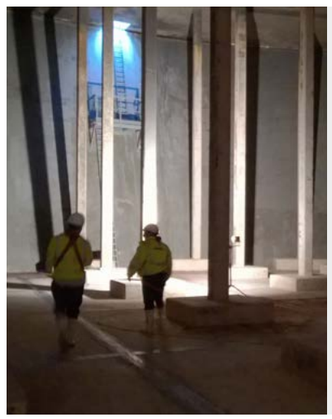
By strengthening and waterproofing the deteriorated 1930s structure with innovative Sika® systems, the team restored a vital drinking water supply at just a quarter of the cost of new build – futureproofing the reservoir for decades while saving around £3m and significantly reducing environmental impact.

Click here to read full case study

DIGESTOR REFURBISHMENT, KIDDERMINSTER

Sika helped extend the life of a Kidderminster digestor through a comprehensive refurbishment solution. By combining proven repair mortars, flexible joint sealing and chemical-resistant coatings, Sika ensured long-term protection against harsh biogenic sulphuric acid conditions.

Click here to read full case study



SERVICE RESERVOIR, EAST SUSSEX

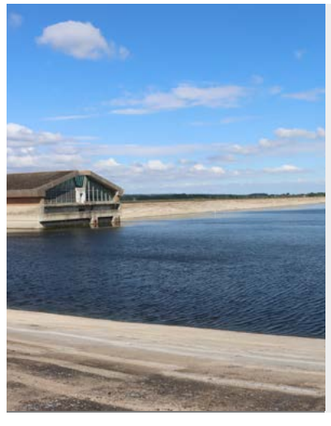
This service reservoir is located on the chalk hills above Eastbourne at well-known beauty spot Beachy Head. The underground reservoir required joint replacement and internal waterproofing to prevent moisture loss or ingress.

Click here to read full case study

WATER TREATMENT WORKS, CARDIFF

This water treatment works in South Wales serves the Cardiff and Newport areas with 180 mega-litres of potable water a day. As part of an ongoing refurbishment programme, 14 filter beds within the treatment plant were upgraded and tanked.

Click here to read full case study



ANGLIAN WATER - JOINT SEALING

The client required a comprehensive refurbishment of an external reservoir due to the failure of the existing sealant system. Approximately 4,000 linear metres of sealant between the concrete-to-concrete slab connection joints had deteriorated, leading to the intrusion of stone and shingle into the reservoir.

Click here to read the full case study

CASE STUDY PROJECTS

SIKA AT WORK

PROJECT REFERENCES

EFFLUENT PIT RESTORATION, CHESHIRE

A trade effluent pit at an industrial site in Cheshire was severely degraded and required a durable tank lining solution as part of planned site upgrades. The pit's below-ground structure and tight project timeframe presented additional challenges, necessitating a fast-curing, high-performance system to meet the client's requirements.

Click here to read the full case study

OUR RANGE OF SIKA SOLUTIONS FOR CONSTRUCTION

Our solutions have been used on new build, repair and refurbishment projects worldwide.

Whether used alone or as part of an integrated system, Sika solutions provide superior protection at every stage, ensuring your project is fit for the future.

You can see our full range of products at:
sika.co.uk

OUR SOLUTIONS INCLUDE:

- Bituminous Roofing
- Building Finishing
- Concrete
- Concrete Repair
- Distribution
- Facade Structural
- Flooring
- Industry
- Joint Sealing
- Liquid Applied Roofing
- Modular Building
- Single Ply Roofing
- Structural Strengthening
- Waterproofing

SUPPORTING ACROSS INDUSTRY SECTORS:

Commercial buildings

Industrial buildings

Residential buildings

Institutional buildings

Energy & utilities

Infrastructure

FOR MORE INFORMATION:

Visit **sika.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 has a global leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing, and protection in the building sector and motor vehicle industry. Sika has subsidiaries in 102 countries around the world and, in over 400 factories, produces innovative technologies for customers worldwide. In doing so, it plays a crucial role in enabling the transformation of the construction and vehicle industries toward greater environmental compatibility. With more than 34,000 employees, the company generated sales of CHF 11.76 billion (£10.35 bn) in 2024.

In the UK and Ireland, we provide market-leading solutions for building finishing, concrete, waterproofing, roofing, flooring, refurbishment, sealing & bonding, and industry, and have manufacturing sites in Welwyn Garden City, Preston, Leeds, Wishaw, Redditch, Goole and Dublin with more than 1,000 employees and a turnover of more than £390 million.

SIKA LIMITED
Head Office
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