Sika Solutions for Construction

Innovation & Consistency | since 1910

Sika Solutions
for Construction

Concrete and cement production

Waterproofing

Flooring and coatings

Corrosion and fire protection

Joint sealing

Repair, protection and strengthening of concrete

Structural bonding and grouting

Steel and glass façade

Roofing

Wood floor bonding solutions on the interior of
a restaurant at Canary Wharf, London, UK

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Sika – Global Technology Meets Local Expertise

Sika started in Zurich at the beginning of 20th Century

Advanced production

Neo Bankside Apartment, London, UK

Brisbane Airport Link, Australia

Dam in Taiwan

Ronald Regan National Airport, Washington, USA

Suton Bridge, China

Willis Buildin, London, UK

R&D Headquarters, Switzerland

100 Years of Experience

Sika began in 1910 when the Gotthard rail tunnel running through the Swiss Alps required a secure waterproof system. It was Kaspar Winkler who developed and provided a completely new solution for chemically waterproofing cement mortars and concretes. Since then the company has gone from strength to strength and today Sika is the global technology and market leader in specialty chemicals for construction and industry. Sika has local businesses on all continents around the world and is well established in more than 70 countries.

Local Expertise

Sika Limited, the UK subsidiary of the worldwide Sika Group, was established in 1927 to produce and market a wide range of technologically advanced systems. This activity is underpinned by unrivalled innovation in product development, the highest standards of manufacturing and renowned technical advice and in-situ guidance. Pioneers of a fully integrated service, the company is renowned for providing for end users or their specifiers, be they clients, designers, engineers, producers, distributors, merchants or contractors.

The reputation Sika has for quality and reliability is virtually unmatched, illustrated through a comprehensive portfolio of problem solving products that have been employed for many years in wide diversity of applications.

Innovation and Technology

Sika is a pioneer in technological innovations designed to meet global challenges, and our Research & Development departments operate on a global scale with regional facilities located around the world.

Sika Technology AG in Switzerland takes the lead in long-term research programmes for the whole Group. These innovative research programmes are aligned with Sika's core competencies and focus on solutions for concrete production, waterproofing, roofing, flooring, sealing, bonding, grouting, reinforcing, structural repair and protection together with innovations in steel and glass facade bonding.

The development of new solutions, as a result of research programmes, is the responsibility of our 11 Regional Technology Centres located in the Americas, Europe and Asia. Products and systems are also developed on a regional level to meet the local market's specific needs and requirements.

Product development also takes place within each country by the local team in their state of the art laboratories. The products are assessed and adapted to suit local conditions, regulations and production. This process facilitates the cost-optimisation for manufacturing and effective market pricing.

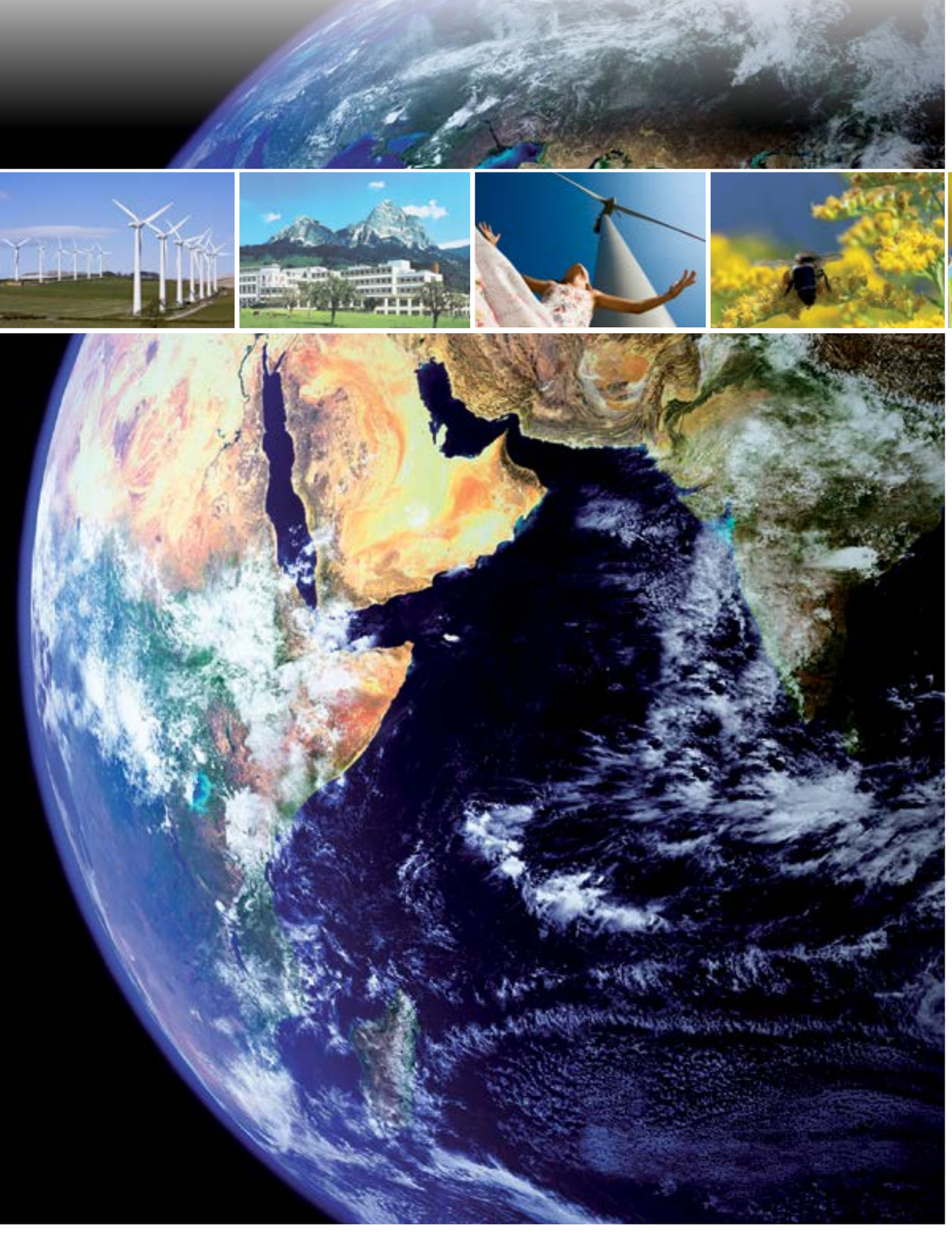
High Quality Construction Solutions

Certified Quality System SQS ISO 9001/EN 29001 since 1986

CE

We provide intelligent solutions using the most advanced technologies, service and unique expertise. There are many successful reference projects located all over the world, and we are famous for our reliable, high quality construction solutions which meet the latest independent tests, standards and regulations.

Within the UK, as in all other group locations, Sika operates to optimal levels of performance, demonstrated through possession of EN ISO 9001 certification for quality control and EN ISO 14001 for environmental management. Wherever possible products are manufactured to European and British Standards, are approved by the British Board of Agrément or provide unique and superior properties. Additionally, Sika Limited was one of the first companies in construction and industrial products to achieve the status of Investors in People, a benefit to those using the organisation, be it in the form of RIBA CPD accredited presentations, project surveys or after sales guidance. We are also active members of many organisations and bodies relevant to the strategic application fields.



Sika – Working Together to Support Sustainability

Global Supply Chain for Local Customers

Our Operations Department manages the extended global supply chain, including procurement of the best available raw materials at competitive prices and production to the highest quality standards. Sika Operations also develop innovative and intelligent packaging, secure product storage and reliable on-time supply to our local customers worldwide.

Partnerships - The Secret of our Success

For us every singe one of our customers is a business partner, from building owners, architects and engineers to contractors and distributors. To enable the success of our customers our aim is to create added value for mutual benefit along the whole of the project value chain, from conceptual design possibilities, to ease of maintenance.
Our Sales and Technical Services teams have the necessary technical knowledge and resources to offer customer support throughout every phase of the construction process: from the initial consultation phase, through the project planning phase, the detailed design phase, application on job site and finishing with quality control, completion and final handover. Sika also offers tailor-made guarantee concepts and future maintenance plans to give extra reassurance.

Actively Contributing to a Sustainable Environment

Sustainability and protection of the environment are always a key focus throughout our technology research and development. Some typical examples are contributions to green roof developments and high standards in low VOC flooring and coating products. Furthermore, Sika adhesives for solar panel installations and wind power generators are contributing to producing cleaner energy. Our concrete admixtures also reduce water consumption and CO2 emissions to improve efficiency of concrete production.
In addition, we are members of a number of different environmental organisations such as UNEP (United Nations Environment Programme) and SBCI (Sustainable Buildings and Construction Initiative). We constantly support different worldwide green projects, for example the international lake network “Living Lakes” organised by Global Nature Fund.

A Strong Sense of Social Responsibility

Sika actively follows and promotes the highest health and safety standards for our people and our customers. We have been involved in The Chemical Industry’s Responsible Care® Programme since 1992 and also contribute locally to many social programmes. The Romuald Burkard Foundation was established in 2005 by our majority shareholding family, descendants of Kaspar Winkler, to provide direct support to selected social and ecologically focused projects in emerging countries.

Precast concrete industry

On site concrete production

Ready-mix concrete production

Semi-dry product production

Cement production

Sprayed concrete applications

Watertight Concrete

Plasterboard Production

Concrete solutions for the Kincardine bridge
Fife, Scotland

Sika Solutions

for Cement, Concrete and Plasterboard Production

Proven Solutions

Sika has a proven track record of working on buildings and civil engineering structures constructed with concrete. Using innovative admixtures and additives to improve cement or concrete quality, Sika can provide an extensive product range of cost effective solutions.
Sika is also a reliable supplier to the ready-mix, precast, cement and plasterboard industries, with an ever increasing presence in the plasterboard industry that demonstrates our ability to innovate and adapt to new markets.

Technology and Quality

Since 1910 Sika has provided quality admixtures and additives for concrete and cement. As a technology leader in cement and concrete solutions we strive to meet market needs, ecological demands and new regulations.
Our successful developments include the **Sika® ViscoCrete®** technology which improves the performance of fresh and hardened concrete properties.

Unique Services and Support

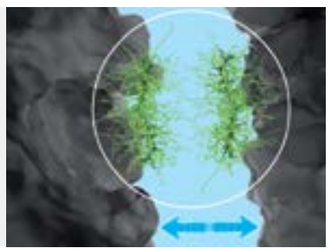
- Concrete mix design
- Laboratory and field testing support
- Dispensing and dosing systems

Sika Solutions Overview

Typical Application	Sika Solutions	Special Performance
Water Reducing Admixtures	Sika® ViscoCrete®	Highly efficient superplasticiser based on polycarboxylates.
	SikaPlast®	dMid-range plasticiser with extended workability and efficiency.
	Sikament®	Conventional superplasticiser for a wide range of applications.
Set Controlling Admixtures	Sika® Retarder®	Strong retarding effects. Set retardation > 24 hrs possible dependent on the placing conditions and mix design.
	SikaTard®	Long time consistency stabilisation for sprayed concrete by controlling the cement hydration.
	SikaRapid®	Significant early age strength increase during hardening or setting.
	Sigunit®	Shotcrete accelerator for sprayed applications requiring very fast set.
Durability Enhancing Admixtures	Sika® Control	Strong reductions in concrete shrinkage. Up to 40% is possible.
	Sika® FerroGard®	Admixtures allowing significant reduction of reinforcement corrosion.
	SikaAer®	Capability to control defined properties of air bubbles, to improve workability and frost resistance.
	SikaFume®	Containing silica fume. Significant improvement in strength and durability.
Additives for Grinding Process	SikaGrind®	Used to speed up cement production and reduce its energy consumption.
	Sika® ViscoCrete®	For strength development and optimising other properties.
Additives for Plasterboard	Sika® Retardan® 200L	Used to set retard calcium sulphate based binding materials.
	Sika® ViscoCrete® G2	High performance polycarboxylate superplasticiser for calcium sulphate based binding materials.

Sika Speciality

The Sika® ViscoCrete® Range is a globally successful range of ultra-superplasticisers. It is used to improve fresh and hardened concrete properties with excellent cost performance advantages. Further development with these **ViscoCrete®** polymers by Sika allows for incredible performance tailored to specific cements and other unusual materials.

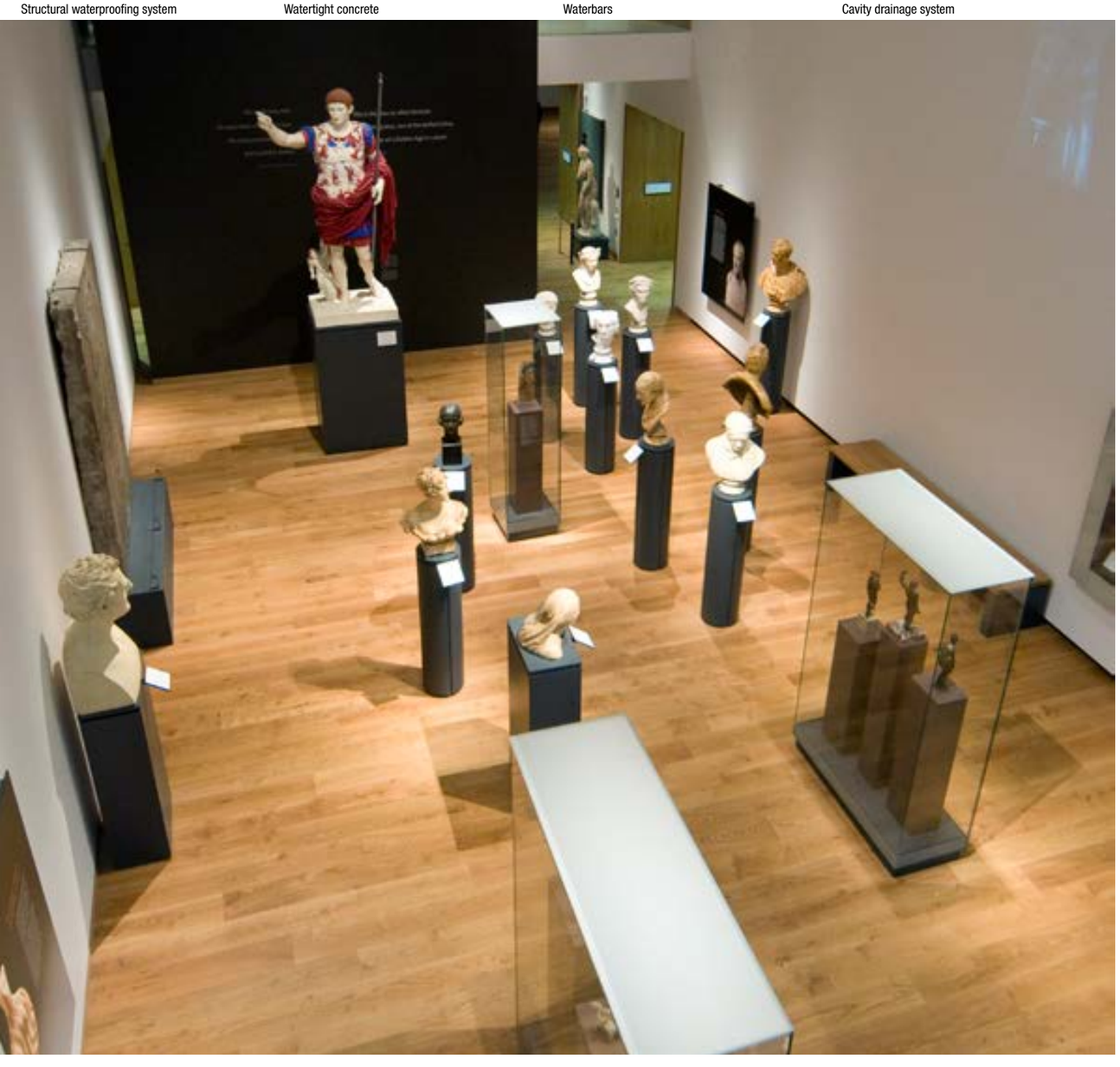


Structural waterproofing system

Watertight concrete

Waterbars

Cavity drainage system



Waterproofing solutions on the basement at Ashmolean Museum, Oxford, UK

Sika Solutions
for Waterproofing

Bonded membranes

Waterproofing for drinking water facilities

Joint waterproofing

Waterproofing for Swimming pools

Proven Solutions

Sika is committed to providing proven and economic watertight solutions for even the most challenging requirements. We consider the entire waterproofing process to the very last detail and can provide solutions for both new build and refurbishment projects.
We have a wide range of systems for both keeping water in and keeping water out. Typical waterproofing projects include below ground structures for buildings, tunnels and other civil engineering structures. Sika also provides special solutions for drinking water reservoirs and waste water treatment plants.
With a unique range of complete systems and products based on extensive experience we can support owners, engineers and contractors in the design and construction process.

Technology and Quality

Sika is the world's leading waterproofing company and has been producing innovative and high quality waterproofing products since 1910.
Our waterproofing technologies include the integrated "White Box" concept, which is a watertight concrete combining joint waterproofing. We also offer water management cavity drainage solutions along with a range of high quality polyurea, polyurethane and epoxy coatings; complete injection systems; mortars, renderings and more. We are proud to say that many of our products fulfil the most stringent drinking water approvals.

Unique Services and Support

- Established Registered Contractor Network
- Analysis of leaks in existing structures
- Concepts, specifications and detailing
- Site specific solutions, e.g. form pieces
- Application training and on-site support
- Proven quality control systems
- Quality controlled pre-bagged system

Sika Solutions Overview

Typical Application	Sika Solutions	Special Performance
Waterproofing System	Sika®-1 Structural Water-	Pre-bagged kiln dried blends of specially graded aggregates and cements, packaged at the appropriate mix ratios
	Sika® Cavity Drainage	Moulded high-density polyethylene and polypropylene membranes and fixing/sealing materials used as a water diversion system in the refurbishment or new construction of domestic and commercial buildings.
Watertight Concrete (White Box)	Sika® ViscoCrete®	Highly efficient superplasticiser based on polycarboxylates.
	Sika® WT Sika® Watertight Concrete	Pore blocking admixtures for integrally waterproofed concrete.
Bonded Membranes	SikaProof® A	Fully and permanently bonded, self-adhesive, composite sheet membrane for basement waterproofing.
Waterproofing of Joints	Sika® & Tricosal®	Waterstops for construction and expansion joints, based on elastomeric materials.
	SikaFuko®	Reinjectable injection hoses for construction joints and as waterproofing backup systems.
	SikaSwell®	Range of hydrophilic gaskets and sealants for construction joints and sealing around penetrations.
	Sikadur® Combiflex® SG	Multi purpose waterproof joint sealing tape systems suitable for bonding to concrete, steel, stone, etc. – for joints cracks and terminations.
Injection Systems	Sika® InjectoCem	Cement and hybrid waterproofing injection materials.
	Sika® Injection series	Acrylic and polyurethane flexible injection foams and resins.
	Sikadur®	Epoxy resins for structural injection and bonding.
Liquid Applied Membranes	Sikalastic® 800 range	High performance polyurethane and polyurea based liquid applied waterproofing membranes.
Watertight Mortars	SikaTop® Seal-107	2-Component flexible waterproofing rendering. Hand or spray applied. With drinking water approvals.

Sika Speciality

The Complete Sika® "Guarantee Package" for Watertight Structures: For your "peace of mind" and a secure watertight structure you should build on Sika's 100 years waterproofing experience. Based on the unique waterproofing product portfolio Sika provides you with the optimised waterproofing solution for your project. In combination with our design expertise and on-site application know-how a **Sika® system** guarantee becomes a real added value for you.

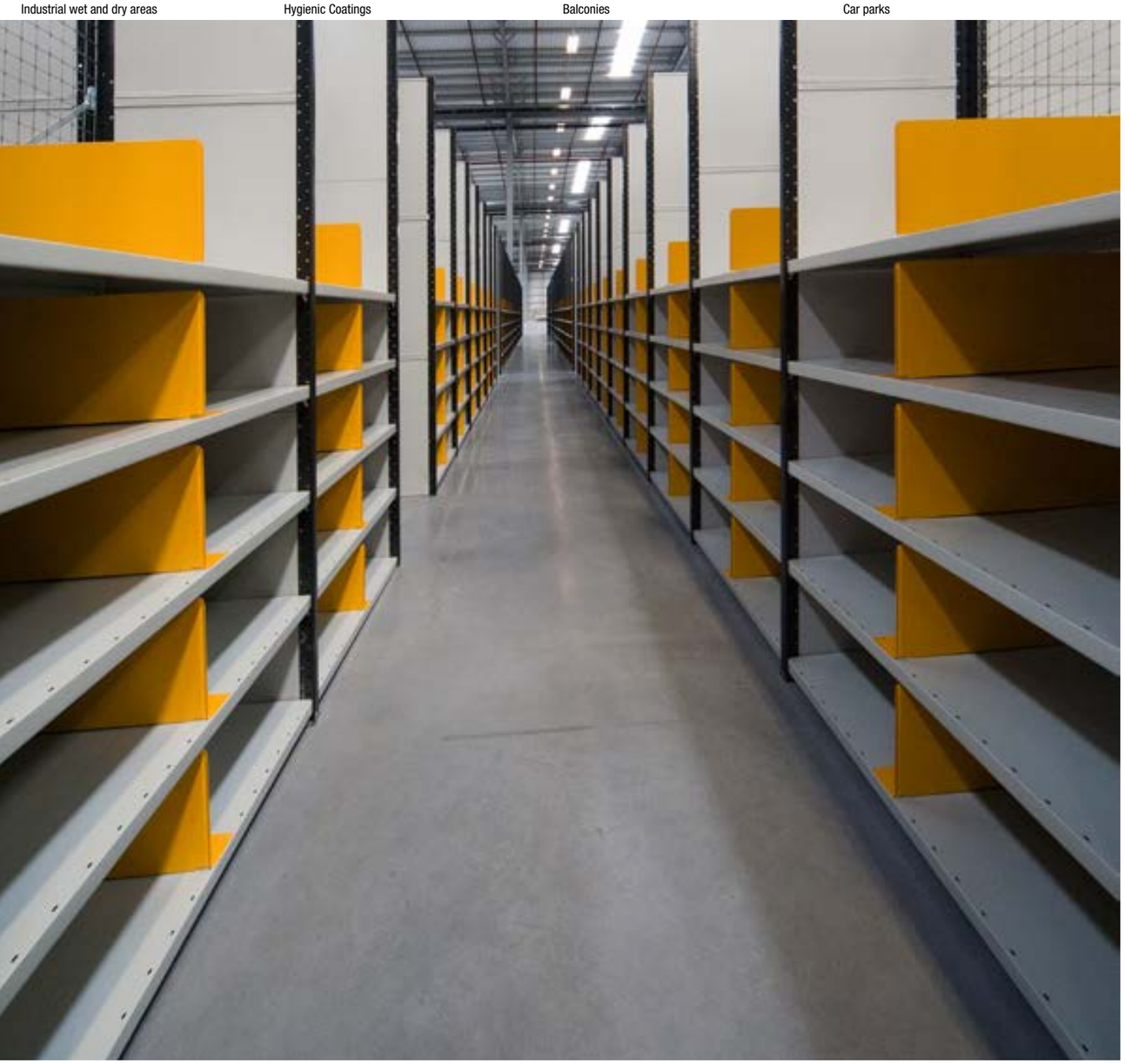
Sika have introduced a Registered Contractor Scheme for the **Sika®-1 Pre-bagged Waterproofing System**, this ensures that from product manufacture right through to installation you can be sure that Sika have quality managed the entire process.

Industrial wet and dry areas

Hygienic Coatings

Balconies

Car parks



Industrial flooring solution at a global on-line retailer, Dunfermline, Scotland

Sika Solutions

for Flooring and Hygienic Coatings

Clean room enviroments

Commercial and public areas

Food production

Storage Logistic Areas

Proven Solutions

Sika has extensive experience in providing flooring and hygienic coating solutions. Our products meet the customer needs and fulfil a wide range of functions according to the application fields they are used for, e.g. industrial floors with mechanical and chemical resistance, clean room specifications, hospital and healthcare establishments, and low VOC emission requirements.

Technology and Quality

Sika flooring and hygienic coating solutions are based on many advanced technologies including Epoxy, PUR and PMMA resins; combinations of different binder technologies such as PU & Cement and EP & Cement for solutions covering requirements for industrial and commercial applications.
We also have a range of Sikagard® hygiene coatings designed for walls and ceilings in hygiene sensitive areas. Our high quality products are designed to meet the latest technical requirements and comply with all regulations and standards. Additionally, Sika is the world leader in VOC and ESD/ECF flooring technology.

Unique Services and Support

- Concepts, specifications and detailing
- Application training and on-site support
- Innovative, time saving application tools

Moisture Triggered Technology

Sikafloor® MTC Systems incorporate a unique technology that allows the material to use atmospheric moisture to trigger the curing process. This means the waterproofing membranes are capable of curing in a wide range of conditions. Soon after application (ca. 10 minutes) the freshly applied membrane will show no adverse reaction to water.

Sika Solutions Overview

Typical Application	Sika Solutions	Special Performance
Warehousing, Retail Logistics, Sales	Sikafloor®-1 MetalTop	Hard wearing metallic dry shake system
	Sikafloor® 2-SynTop	Hard wearing non-metallic dry shake system
Production and Processing	Sikafloor®-21 N PurCem®	Polyurethane and cement combination for high wear, chemical resistant and hygienic surfaces.
	Sikafloor®-20 N PurCem®	Thermal shock resistant and steam cleanable.
	Sikafloor®-15 Pronto	Acrylic based, rapid curing, flexible and decorative solution for medium wear.
Cleanroom Environment	Sikafloor®-266 CR	Special epoxy with low VOC / AMC and particle emissions. High wear and chemical resistance.
EPA (ESD – Protected Area)	Sikafloor®-235 ESD	Epoxy based, anti-static / ESD floors with high wear and abrasion resistance. Easy to clean. Coloured and smooth surfaces.
Multi-Storey and Underground Car Parks	Sikafloor®-263 SL/264	Epoxy based, slip resistant wearing surfaces with high abrasion and impact resistance.
	Sikafloor®-350N, 359 N	Polyurethane based, protective deck waterproofing and wearing surfaces with highly abrasion resistant and crack-bridging properties.
Balconies	Sikafloor® Pronto Range,	Acrylic based rapid curing, coloured, protective waterproofing and wearing surface.
	Sikafloor® 400N Elastic, 405, 415, 416	Waterproofing balcony systems. Self smoothing, fast moisture trigger curing chemistry, polyurethane resin crack-bridging decorative screeds.
Commercial and Public Buildings	Sikafloor®-330/305 W	PU based, smooth, low VOC “Comfort Floors”. Noise-absorbent, sound insulating and decorative.
	Decorative Flooring Solutions	Highly decorative granite or quartz effect flooring range. Low VOC, slip resistant and highly mechanical.
Tank + Bund Linings including Potable Water	Sikagard®-63 N	Epoxy based, solvent free coating with high abrasion and chemical resistance.
	Sikafloor®-390	High wear, abrasion and chemical resistance.
Hygienic Coatings	Sikagard® 203W, 205W, 206W, 307W	Waterbased for internal surfaces, provide impervious hygienic finish, easy to clean. Hardwearing and free from joints and seams, therefore do not harbor dirt and bacteria.
Acid Proof Coatings	Sika® Asplit® VE	Smooth flexible coating with excellent chemical resistance.

Sika Speciality

Sikafloor®-CR and Sikagard®-CR Cleanroom Suitable Solutions: Sika is the first company to develop a unique advanced flooring and coating solution for cleanroom environments to meet CSM standards (Cleanroom Suitable Materials). CSM restricts not only VOC / AMC emissions (Volatile Organic Compounds / Airborne Molecular Contaminants), but also particle emissions. This development corresponds to the latest demands in manufacturing under strict cleanroom conditions.

Sika Solutions
for Wood Floor Bonding

Offices

Spas and Pools

Restaurants

Hotels

Conference Halls

Retail Outlets and Designer Stores

Museums

Education

Wood floor bonding solutions on the interior of a PPC agency, London, UK

Proven Solutions

Sika was the original innovator of elastic bonding technology more than 20 years ago and has since become the leading authority on the technique of fixing solid or engineered wood flooring direct to any substrate.

SikaBond® is the contractors choice of adhesive for its easy application, long-term durability and vesatility of design options. Whilst being able to offer a secure solution for any project from industrial paper mills to airport lounges and apartment blocks, Sika can if required produce working documents in the format of your choice.

SikaBond® offers bespoke design solutions to Architects, Engineers, Facility Managers and Clients alike. Our proven track record is unsurpassed with over 5,000,000m² of wood flooring bonded since 1999.

Technology and Quality

Sika's expertise in polyurethane technology is recognised globally as "Best in Class" and has been used extensively for many years on countless high profile projects all over the world. Our unique patented *I-Cure* formulations ensure that bubble free curing and ultimate bond strengths are achieved to all common substrates. Most recently our wood floor bonding adhesives have been utilised for the penthouse apartments in Europe's highest dwellings at "The Shard" London's most prestigious address.

Unique Services and Support

- Patented Elastic adhesives
- Bespoke design specification service
- Method statements in any format
- Full site support during works
- Single source responsibility

Powered by i-Cure® Technology

Sika Solutions Overview

Typical Application	Sika Solutions	Special Performance
Wood Floor Bonding	SikaBond®	Durable elastic bonding of all wood flooring to any substrate with unique patented *I-Cure* technology.
	Sika® AcouBond®	Combination of silent underlay and sound absorbing adhesives to dampen transmitted noise in multi-occupancy buildings.
Surface Applied Damp-proof Membranes	SikaBond® Rapiid DPM Sika® Primer MB	Extremely durable surface mounted damp-proof membranes suitable for the prevention of moisture vapour egressing from a cement based substrate.
Soft Flooring Adhesives	SikaBond® Floor Uni	Complete range of VOC free adhesives for the fixing of Carpet, Vinyl, Cushion Vinyl, Lino & all Pressure sensitive flooring materials.

Sika Speciality

The **SikaBond®** range of hard and soft flooring adhesives have an unsurpassed pedigree for providing value engineered project solutions on time and within budget. The long term durability and performance combined with flexible design possibilities makes Sika the obvious choice for all specifiers and contractors alike.

Sika Solutions
for Corrosion and Fire Protection

Nuclear power plants

Parks

Airports

Railway stations

Industry

Infrastructure

Stadiums

Wind energy

Corrosion protection solution for the Fuchsberg Bridge, Pfaeffikon, Switzerland

Proven Solutions

Sika can provide economic, durable and reliable coatings for protecting steel structures against fire and corrosion. Our products can also withstand the effects of extreme weathering, mechanical abrasion and chemical attack. In addition our solutions have the advantage of long life, low volatile organic compound (VOC) content and pleasing aesthetics.
Sika has achieved success all over the world protecting many different types of buildings. Typical examples include industrial structures, infrastructure projects, power plants, wind farms and petrochemical facilities.

Technology and Quality

Sika's technologies are based on epoxy, polyurethane and other modified resins. They include many specialised products such as low VOC systems and high build systems to reduce application costs.
Our fire protection coatings for steel can also be applied on other substrates such as reinforced concrete and wooden structures. These intumescent coatings expand in fire situations to create an air filled insulation layer against the high temperatures.
Our products also comply with the highest requirements of national and international standards, including ISO EN 12944.

Unique Services and Support

- Concepts, specifications and detailing
- Application training and on-site support
- Innovative application tools

Sika Solutions Overview

Typical Application	Sika Solutions	Special Performance
Structural Steel Frames	SikaCor® EG System	2 part epoxy and polyurethane protective coating system for galvanised and steel structures
Transport Infrastructure	Sika® Poxitar	Very economic and durable corrosion protective coating with low solvent content.
Power Generation & Distribution	SikaCor®-6630 M	Low solvent thick layer coatings based on specially modified resin combinations for the protection of transmission towers and gantries.
Steel Fire Protection	Sika® Unitherm® DS	Water based intumescent fire protection system. High performance and relatively low consumption.

Sika Speciality

Sika® Unitherm® Intumescent Coatings are globally approved and certified. They provide fire protection lasting from 30 minutes to 2 hours and are suitable for both interior and exterior. They can be applied on structural steelwork.

Sika Solutions

for Concrete Repair, Protection and Strengthening

Stadium structures

Concrete façades

Tunnels

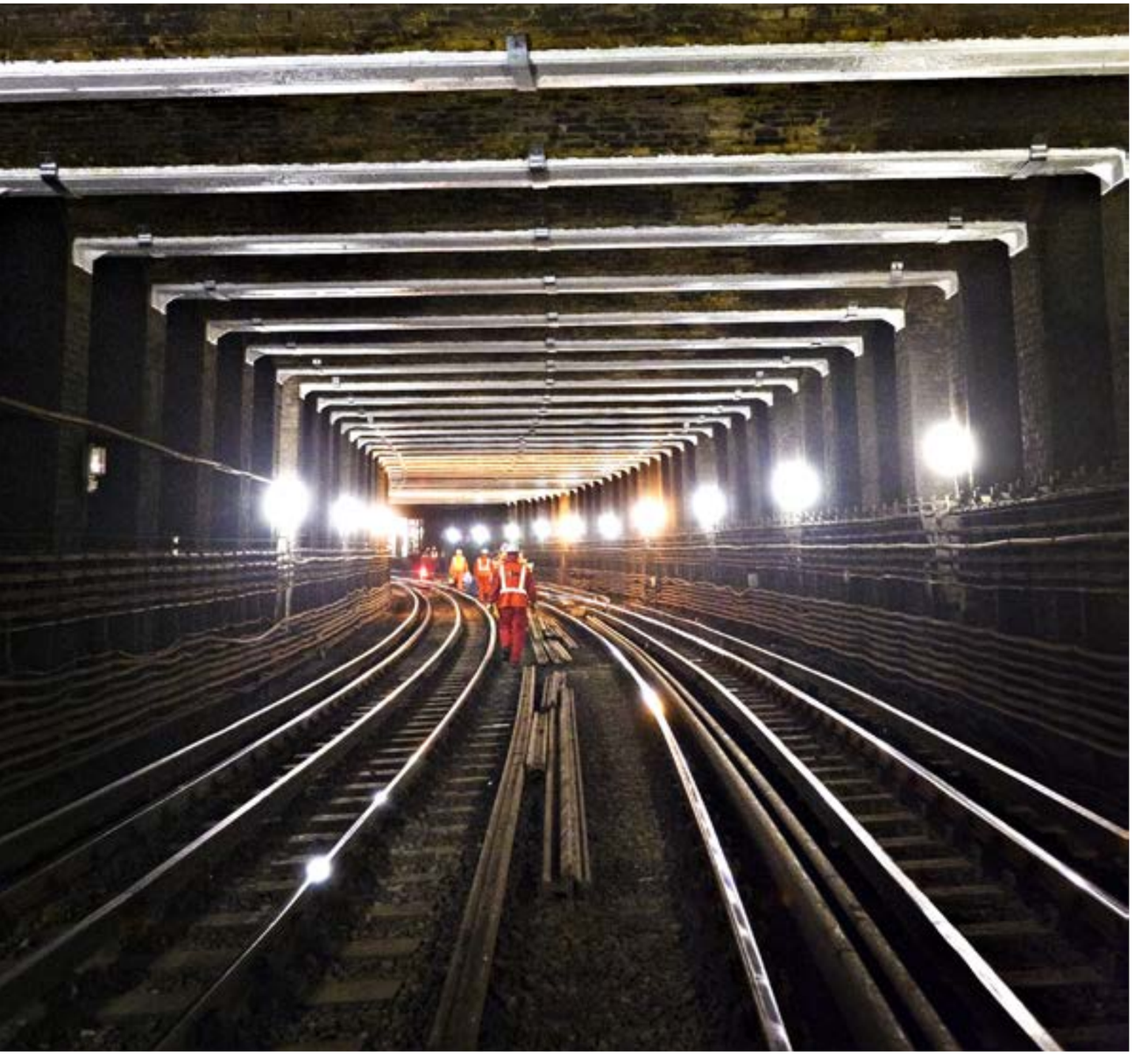
Water tanks

Chimneys and cooling towers

Silos

Building structures

Sewage water treatment plants



Proven Solutions

Sika has been associated with concrete refurbishment since the company was founded over 100 years ago. We have developed fundamental procedures and pioneering products for the permanent repair and protection of decaying and damaged concrete.
Sika was the first manufacturer in the global market to develop and introduce carbon fibre technology for reinforcing and strengthening concrete structures. Our skills for producing new innovative products like these, together with economic thinking for sustainable solutions, means Sika today is a market leader in the field of concrete maintenance and refurbishment.

Technology and Quality

Sika produces concrete repair products for global use that meet all relevant standards, guidelines, local requirements and other recommendations. We know our customers demand simple easy to use products with additional added value, so we also develop internal Sika tests and procedures to further control the practical performance and quality of our products.
We are a world leader in concrete repair mortars, protection coatings for concrete, special mortars for extreme and demanding applications and structural strengthening using carbon fibre technology.

Unique Services and Support

- Survey of damaged concrete
- Concepts, specifications and detailing
- Product or system selection
- Application training and on-site support
- Quality Control recommendations

Sika Solutions Overview

Typical Application	Sika Solutions	Special Performance
Corrosion Protection of Reinforcement Steel	Sika® MonoTop®-610	1-component cement based product with good resistance to water and chloride penetration.
	SikaTop®-Armatec®-110 EpoCem®	High performance corrosion protection based on epoxy modified cement. High resistance and protection, with outstanding adhesion.
Repair Mortar	SikaCem® 133 Gunite	Cement based repair mortar for machine application.
	Sika® MonoTop®-615	Cement based repair mortar for hand application
Protective Coating	Sikagard®-675 W Elastocolor	Waterproof acrylic resin based protective coating for concrete.
	Sikagard®-550 W Elastic	Elastic, crack bridging, waterproof protective coating for concrete. Excellent carbonation barrier.
Corrosion Inhibiting Impregnation	Sika® FerroGard®-903+	Special corrosion inhibitor to provide long term reinforcement protection. Allows economic extension of the service life of concrete structures.
Hydrophobic Impregnation	Sikagard®-700 Range	Silane and siloxane based hydrophobic impregnations to repel water on concrete and other mineral building facades. Gel formulations for maximum penetration and higher and durable protection.
Injection Material	Sikadur®-52	Epoxy based injection resin for cracks > 0.3 mm width.
Structural Strengthening	Sika® CarboDur® Systems	State of the Art strengthening systems based on carbon fibre technology and other composite materials.
	SikaWrap®	Used for the strengthening of reinforced concrete structures.
Sealing of Joints	Sikaflex®-Pro 2HP	Movement joint sealant to protect the concrete structure from aggressive media entering through the
Embedded Galvanic Anodes for Corrosion Prevention and Control	Sika® Galvashield XP	Embedded galvanic anodes used in concrete rehabilitation to prevent the formation of new corrosion sites adjacent to completed patch repairs.
	Sika Gavalshied CC	Embedded galvanic anodes used to control ongoing corrosion and to prevent the new formation of corrosion sites on reinforced concrete structures.

Sika Speciality

Sika® Carbodur® Systems carbon fibre reinforced plates (CFRP) systems for structural strengthening using fibre reinforced polymers are used for flexural strengthening of beams and slabs, shear strengthening of beams and to increase axial, shear and flexural capacity of columns. Both concrete, metallic and masonry structures can be strengthened using **Sika® Carbodur®** plate or **SikaWrap®** fabrics.

Structural strengthening solutions for London Underground, London, UK

Sika Solutions
for Structural Bonding and Grouting

Track/baseplate grouting

Cable grouting

Epoxy resin grouting

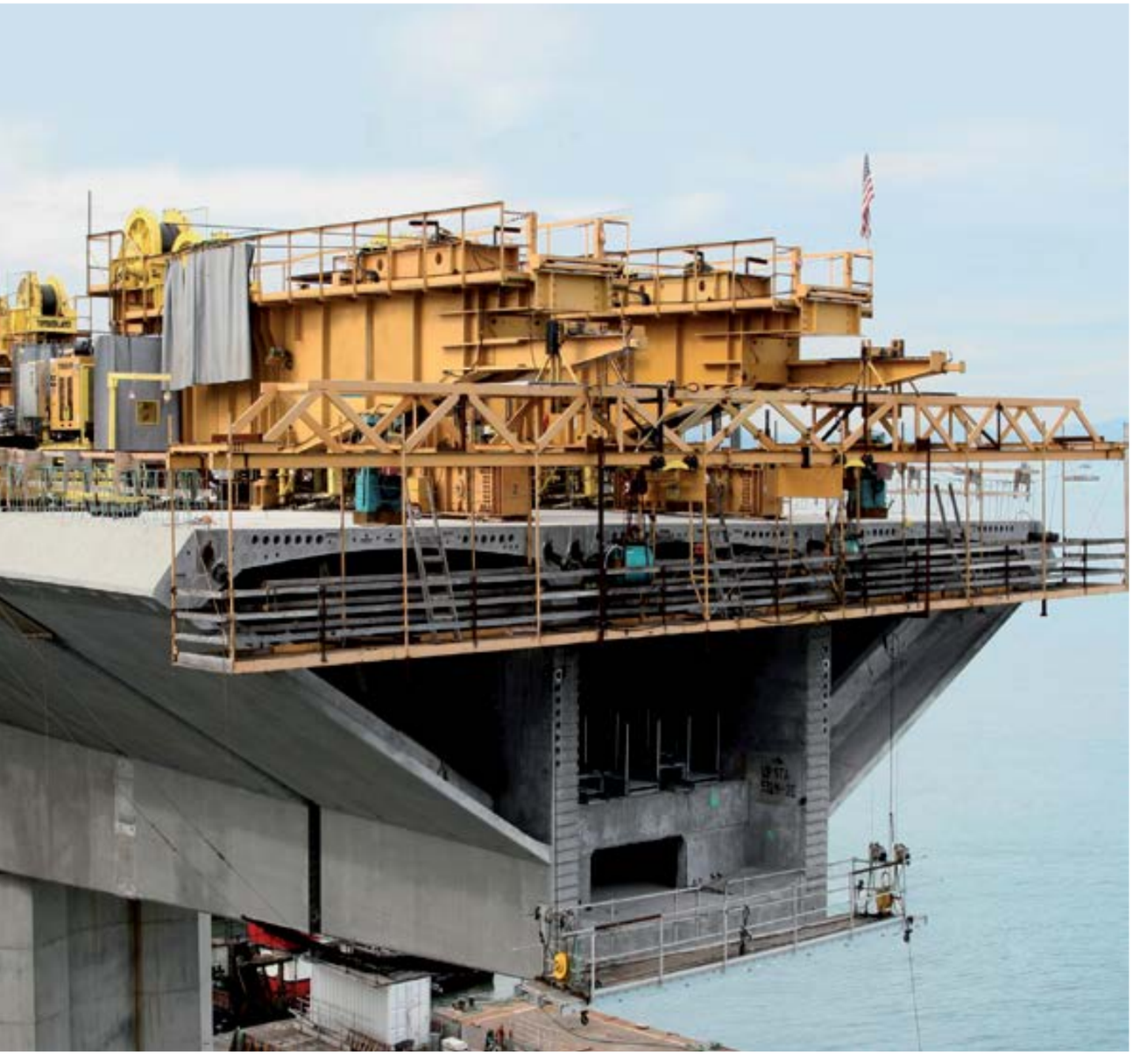
Cementitious grouting

Structural bonding in dams

Bonding of bridge elements

Machine base plate grouting

Anchoring; bonding of threaded rods and rebars


Structural bonding solution for a segmental bridge, Oakland Bay Bridge, San Francisco, USA

Proven Solutions

As far back as the 1960's Sika was actively involved in producing products to bond elements of pre-stressed concrete bridge units together. This pioneering experience in bonding technology is still broadly used across the world today.
Sika Adhesives are used in many different areas of construction and building, as well as industrial and manufacturing applications.

We also offer a wide range of fluid cement and synthetic resin mortars. These mortars, which can be poured or injected, are used for fixing pre-cast elements together or filling voids under machine bases and base-plates. The fluid characteristics of grouting mortars are ideal for filling small gaps and hollow spaces and also protect pre-stressed cables in ducts and permanent anchors.

Technology and Quality

Our unique quality management procedures enable us to produce products all over the world with similar quality and performance. We utilise a centralised research and development facility to introduce products to the global market, through equally competent regional research centres.
These centres test and facilitate the introduction of new products to suit specific local requirements. Our development advances include polymer adhesives, special adhesives, fluid polymer and cement grouts, adhesives with dampening functions for rails and injection grout for post tensioning structures.

Unique Services and Support

- Concepts, specifications and detailing
- Product or system selection
- Application training and on-site support
- Quality Control recommendations

Sika Solutions Overview

Typical Application	Sika Solutions	Special Performance
Structural Adhesive for Concrete and Steel	Sikadur®-31/ Sikadur®-31 SBA	2-component high performance epoxy based adhesives for the structural bonding of concrete, steel, glass, stone, wood and other materials, with excellent workability.
	Sika® AnchorFix®	2 component uni-cartridge applied solvent free adhesives for fast and secure bonding of dowel bars, steel reinforcement and anchoring bars, etc.. Based on modified epoxy and acrylate resins.
Grouting Mortars	SikaGrout® range	Shrinkage compensated cement based grout with very good workability, mechanical strengths and application properties.
	Sikadur®-42 range	High performance grouts based on modified epoxy resins. No shrinkage, high durability and excellent mechanical strengths and strength correlation.
Track/Baseplate Grout	SikaRail® range	High performance flexible grout solutions.

Sika Speciality

The flexible grouts **SikaRail® range** has won worldwide recognition for tailor made, long lasting direct fixation of rails to solid substrates, i.e. concrete and steel. Sika provides design and technical assistance to consultants, operators and contractors for optimum and innovative trackwork solutions under a wide variety of conditions of exposure, for wheel loads ranging from 4 to 75 metric tonnes.

Façade joints

Floor movement joints

Façade connection joints

Joints in precast elements

Floor connection joints

Joint sealing

Flexible joints

Joints in sewage treatment plants

Joint sealing solution on the Grand Pier, Weston Super Mare, UK

Sika Solutions

for Joint Sealing and Bonding

Proven Solutions

Sika provides a full range of elastic joint sealants for buildings and civil engineering structures. Our current product range has been adapted for a variety of applications based on more than 60 years experience.
We supply joint sealing solutions not only for facades with high movement capacity and UV resistance, but also for floors in trafficked areas requiring chemical and mechanical resistance. Sika also has long experience with joint sealants in sewerage systems which need to be specially formulated for maximum resistance to chemicals, micro-organisms, mechanical pressure, and abrasion. Sealants for containment bunds to prevent leakage of pollutants are also a speciality of Sika as are elastic bonded wood floors for improved acoustics.

Technology and Quality

Sika develops, produces and supplies many different types of quality joint sealing materials and is recognised as the global market and technology leader in elastic polyurethane (PU) sealants.
We provide systems based on polyurethane (PU), PUHybrid (AT), silicone and acrylics, as well as the necessary ancillary products such as primers and cleaning agents. We also offer high performance elastic wood floor bonding solutions based on 1-component PU and AT technology. These fulfil the lowest emission requirements (EC-1) and allow design creativity.
With our local support we can offer the most efficient, cost effective and reliable solution for every joint sealing requirement and standard.

Unique Services and Support

- Concepts, specifications and detailing
- Product selection
- Adhesion, compatibility and performance tests
- Systems compatible to other Sika Systems e.g. **Sikafloor®**
- Application training and on-site support

Sika Solutions Overview

Typical Application	Sika Solutions	Special Performance
Industrial and Commercial Floor Joints	Sikaflex® PRO-3WF	High performance 1-component PU sealant with outstanding mechanical and chemical resistance, ideal for all kind of floor joints.
Joints for Sewage Treatment Plants	Sikaflex® PRO-3WF	1-component PU sealant with maximum resistance to chemicals, micro-organisms, mechanical abrasion and pressure.
Joints for Containment Bunds and Petrol Stations	Sikaflex®-Tank N	Unique 1-component PU sealant used in areas for storage, filling and handling of water polluting liquids with European approvals.
Façade Joints	Sikaflex® AT-Façade	High quality 1-component sealant based on Sika's AT for high-level movement joints in façades, also ideal for non-porous substrates.
	Sikaflex® AT-Connection	1-component sealant based on Sika's AT to seal all kind of connections between different construction materials.
	Sikaflex® PRO-2HP	1-component PU sealant for high-level movement joints in façades and ideal for joints between precast concrete elements.
	Sikaflex®-Construction	1-component PU sealant for low-level movement and connection joints with good adhesion to concrete.
	Sika® Membrane System	Elastic EPDM membrane system to seal around windows and cladding connection joints particularly for ventilated curtain façades.
Sanitary and Wet Room Joints	Sikasil® / Sanisil®	1-component sealants based on silicone for joints in wet rooms and around sanitary ware.
Joints for Interior Finishing	Sikacryl®	Acrylic 1-component sealant for interior finishing of non-movement joints and cracks.

Sika Speciality

Sika's Joint Sealants Based on the "Advanced Technology" (AT) define a new performance level for façade joints. **Sikaflex® AT-Façade** is Sika's top quality sealant for movement / expansion joints where a special low modulus is required to allow a high level of movement. Whereas **Sikaflex® AT-Connection** is a high quality sealant for connection and construction joints, it has outstanding UV resistance and colour stability to ensure long life. The perfect adhesion on different substrates provides additional security and durability, and can be applied with minimal substrate preparation. Application properties can be adjusted to meet the applicator's highest expectations.

Structrual glazing

Insulating glazing

Weather sealing of glass and metal cladding

Weather sealing of natural stone façades

Weather sealant solutions for the glass façade of the University College London Hospital, UK

Sika Solutions

for Steel, Glass Façade and Rainscreen Cladding

Water & vapour proofing with façade membranes

Panel bonding

Glass panel grouting

Structural window bonding

Proven Solutions

Sika provides cost-effective, high-performance and sustainable solutions for the waterproofing, sealing and bonding of façades. Our product range fulfils various façade design and performance criteria including ecological regulations for interior climate control and energy consumption. We offer solutions for even the most complex situations and work closely with designers, manufacturers and contractors to optimise the right product choice.
Sika is also the global leader and ideal partner for the innovative façade and window industry.

Technology and Quality

Sika is the global technology driver in the development of structurally bonded windows in co-operation with window system providers and machinery manufacturers. We supply a range of quality products consisting of adhesives and sealants for structurally bonded windows and structural glazing, as well as butyl primary edge seals and PU and silicone based secondary sealants for insulating glass.
Backed up by a reliable and well supported technical service team, we have the right system to suit our customers' needs.

Unique Services and Support

- Design consultancy and joint calculations
- Adhesion, compatibility and performance tests
- Assistance in selection of application equipment
- Applicator training

Sika Solutions Overview

Typical Application	Sika Solutions		Special Performance
	Product	Material	
Structural Glazing	Sikasil® SG-500	2-C Silicone	SG adhesive for machine application, with fast curing properties.
	Sikasil® SG-18/20	1-C Silicone	SG adhesives, manual application, suitable for on-site repair glazing.
Insulating Glass	Sikasil® IG-25	2-C Silicone	IG secondary sealant for machine application with fast curing properties. ETA approved for the use in IG in SG façades.
	Sikasil® IG-25 HM plus	2-C Silicone	High-strength IG secondary sealant for insulating glass filled with inert gas. Complies with EN-1279-3. ETA approved for the use in IG in SG façades.
	SikaGlaze® IG-50	2-C PU	IG Secondary sealant for machine application. Compatible with Sika PU-adhesives for window bonding.
	SikaGlaze® IG-5 PIB	Butyl	IG primary sealant compatible with Sikasil® IG and SikaGlaze® IG secondary sealants.
Weather Proofing Sealants	Sikasil® WS-605 S	1-C Silicone	Weather resistant sealant for glass and metal façades.
	Sikasil® WS-355	1-C Silicone	Non-staining silicone weather resistant sealant for natural stone façades.
	Sikasil® WS-655	1-C Silicone	Non-bleeding silicone weather resistant sealant for glass and metal façades.
	Sikasil® WS-680 SC	MS polymer	Weather resistant sealant for self-cleaning glass façades.
Fire Retardant Sealants	Sikasil® FS-665	1-C Silicone	Fire retardant silicone sealant, 4 hours fire rated to BS476.
	Sikasil® FS-665 SL	1-C Silicone	Self-levelling version of Sikasil® FS-665 for wide floor joints, excellent flowability.
Glass Wall Grouting	Sika® Icosit KC	2-C PU	Self-levelling fast curing PU for stress-free embedding glass walls and balustrades.
Water & Vapour proofing	SikaMembran® system	EPDM	Membrane system for vapour proofing of façades in all climatic conditions. Easy application with high strength adhesive SikaBond® TF plus N.
Panel Bonding	SikaTack® Panel	1-C PU	System consisting of PU adhesive, spacer tape and surface pretreatment products, for flexible bonding of non-glass façade panels.
Window Bonding	Sikasil® WT-400 series	2-C Silicone	Adhesives for structural window bonding, available with various curing speed for manual to automated machine application. For all types of window frame materials
	Sikaflex®-650 WT-1	1-C PU	
	SikaFast®-5000 series	2-C Acrylic	

Sika Speciality

Sikasil® IG-25 HM plus is a globally established and highly successful IG secondary sealant for Argon filled Insulating glass units, with the lowest Argon loss rates.

Sika Glazing and Window Bonding Adhesives: unique product range for the structural sealing and bonding of all types of glazing units, windows and frames.

SikaTack® Panel Adhesive System is for the Secret Fixing of Rainscreen Cladding Systems. This ingenious and simple system offers both the designer and installer alike many advantages over comparable rigid mechanical secret fixing systems. The permanent elastic nature of our system combined with a tenacious adhesion to a variety of panel substrate types, accommodates the natural differential movement whilst allowing the designer the freedom to design façades without any unsightly fixings.

Gravel ballasted roofs

Solar roofs

Design freedom

Metal roof imitation

Commercial flat roofs

Green roofs

Utility roofs

Roof refurbishment

Sika-Trocal Green Roof on the Dog's Trust Rehoming Centre,
Wymeswold, Leicestershire, UK

Sika Solutions
for Roofing

Proven Solutions

Sika roofing membranes not only make roofs waterproof, they also fulfil other additional requirements, e.g. UV and mechanical resistance, flexibility in cold and thermal stability in heat, resistance to wind uplift forces, etc. With experience and success in all kinds of applications on all building types, Sika's roofing solutions are suitable to be applied on most substrates and roof shapes (flat, curved and pitched roofs). We are competent in providing proven long-lasting solutions for roofs with various uses and special aesthetic appearances.

Technology and Quality

Sika is the world leader in roofing material technologies which include: proven high quality flexible membranes (PVC and FPO) with a long track record which can be either mechanically fastened or adhered to substrates in exposed roofing systems or be loosely laid under ballast; liquid membranes based on high-performance polyurethanes (1-Component PU which uses atmospheric moisture to trigger the curing process, giving early rain resistance) allowing even easier application by brush, roller or machine on difficult roofs and details.

Unique Services and Support

- Full systems including all components and accessories
- Tailor-made guarantee concepts
- Wind load calculations
- Roof analysis
- Concepts, customised specifications and CAD details
- Specialised application equipment
- Application training and on-site support

Sika Solutions Overview

Typical Application	Sika Solutions			Special Performance
	Product	Material	Application	
Exposed Roof	Sika-Trocal® S	PVC	MF	Fast and less weather dependant installation, high vapour permeability.
	Sika-Trocal® SGK	PVC	A	Economical adhered solution, partial bond to substrate, fast adhesive application in strips.
	Sarnafil® S327	PVC	MF	Wide colour range, lacquered surface prevents soiling, fast installation and less weather dependent.
	Sarnafil® G410 / 410 Felt	PVC	A	High aesthetical performance and design possibilities, wide colour range, full adhesion to substrate, limited lateral underflow, lacquered surface.
	Sarnafil® TCS77	FPO	MF	High chemical resistance, direct applications on XPS/EPS and bitumen.
	Sarnafil® TG76 Felt	FPO	A	Full adhesion to substrate, high chemical resistance, direct applications on XPS/EPS and bitumen.
	Decothane	1-C PU	LA	High performance seamless, fully reinforced waterproof coating for use on flat and pitched roofs, easy detailing, vapour permeable, excellent thermal and UV stability.
	Decaflex	1-C PU	LA	High performance seamless, fully reinforced waterproof coating for use on flat roofs, easy detailing, vapour permeable.
	Soladex PU	1-C PU	LA	High performance seamless, locally reinforced waterproof coating for use on profiled metal and asbestos cement roofs, easy and quick application, vapour permeable.
	Sikalastic 618	1-C PU	LA	Economical seamless, fully reinforced waterproof coating for flat roofs, vapour permeable.
Gravel Ballasted / Green / Utility Roof	Sika-Trocal® SGmA	PVC	LL	Fast loosely laid application, highly elastic product – easy to handle and weld, root resistant.
	Sarnafil® TCG66	FPO	LL	High chemical resistance, direct applications on XPS/EPS and bitumen, highly ecological, root resistant.
	Decothane Root Resistant Membrane	1-C PU	LA	High performance seamless, fully reinforced, root resistant waterproofing system, easy detailing, excellent thermal stability, vapour permeable.

PVC - Plasticised polyvinylchloride FPO - Flexible polyolefins A - Adhered MF - Mechanically fastened LL - Loosely laid LA - Liquid Applied

Sika Speciality

Sika consistently demonstrates its competence in roof waterproofing in the UK and around the world, and our experienced technical teams can work with you to offer a variety of specialist refurbishment solutions tailored to meet your project needs. Our complete range of sustainable solutions - including solar, green and cool roofs - can be used for new build and refurbishment projects both large and small.

Sustainable Solutions

We offer a range of green roof and solar roof solutions that incorporate waterproofing membranes from our three roofing brands; Liquid Plastics, Sarnafil and Trocal, which together represent the UK's leading single ply and liquid applied roof membranes. Our solar roof systems include reflective white membranes that help to enhance the effectiveness of your solar system, whilst our green roofs come with the option of a root resistant membrane that ensures your building remains watertight whilst still playing host to a plethora of plants and wildlife.

Sika Worldwide

Sika - Your Local Partner with a Global Presence

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. All orders are accepted subject to our current terms of sale and delivery. 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.

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