



SikaSmart™

EXPERT SOLUTIONS
FOR THE BUILDING ENVELOPE

**A SMARTER APPROACH
TO BUILDING DESIGN
AND CONSTRUCTION**



BUILDING TRUST

IT'S YOUR ENVIRONMENT. TAKE CONTROL OF IT WITH BUILDING ENVELOPE SOLUTIONS FROM SIKA.

A building needs a high performance “envelope” that provides unyielding protection from the elements. SikaSmart from Sika Corporation is designed to do just that. Every portion of your building’s outer structure, from roof and exterior walls to basement, can be vulnerable to water intrusion and weathering causing wet insulation, air leakage and premature deterioration of construction materials. These problems often result in costly maintenance and repair, exorbitant energy costs, poor indoor air quality—even a shortened lifespan for your most valuable asset, the building itself.

Sika Corporation has a remarkable 100 years of experience developing and producing a wide range of quality products and systems that cover, seal, bond, strengthen, reinforce, repair, and protect every portion of a building’s outer structure. SikaSmart is the company’s single resource for integrated, compatible products and systems that produce superior protection for the building envelope. Customized building envelope strategies from Sika minimize threats to your building and help you to maximize your Return on Investment.

SikaSmart building envelope technology promotes building functionality, enhances the appearance of structures, and extends the life of your building and many of its major structural components. SikaSmart addresses an assortment of critical functions relating to new and existing construction, including roofing, concrete protection, concrete repair, sealing and bonding and protective floor finishes and coatings.



BUILDING TRUST





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Separating conditioned interior space from unconditioned outdoor space is a challenging task that goes beyond simply keeping water out of your building. According to the EPA, buildings are responsible for 39 percent of total energy consumption and account for 68 percent of electricity use.

Sika has the products, technical knowledge and service network needed to fully assist designers and building owners with building envelope solutions that protect structures from deterioration and promote sustainability. The company's experience in the construction industry has led to an unmatched reputation for technological expertise and product integrity. Notably, SikaSmart features single-source management from a trusted and reliable supplier, thereby alleviating many of the headaches architects, consultants and building owners encounter when dealing with multiple manufacturers.

BUILDING ENVELOPE SOLUTIONS FROM SIKA



Roofing

Protecting a building and its contents from the elements starts with the roof. Sika tackles roofing and roofing performance head-on with a versatile line of long-lasting, single-ply and liquid-applied membrane systems proven to safeguard facilities in all climates. Sika roofing systems enable building owners to avoid continuous, costly maintenance while protecting the building envelope from ongoing deterioration. Sustainability features enable owners to realize a higher ROI.



Exterior Walls & Windows

Appearance counts, but that's only part of the story when it comes to a building's facade. Sika has advanced, high-performance products and systems for exterior walls and windows that help to conserve energy, enhance visual appearance, and keep natural elements and weathering from penetrating the building exterior and, ultimately, the structure itself.



Balconies

Balconies must stand up to all of the debilitating elements of the outdoors, and function as a comfortable and attractive living space. Solutions from Sika make this possible, with flexible membranes and sealants that help balconies withstand the damaging effects of the environment, keep water from entering the building's structure, and create an appealing space.



Interior & Mechanical Spaces

Sika's decorative flooring for industrial, commercial and institutional buildings has a well-earned reputation for outstanding performance, reliability and aesthetics that dates back an incredible 80 years. Low-VOC systems produce a rugged, long-lasting, seamless surface with outstanding resistance to abrasion, chemicals, impact, thermal shock and UV. Innovative concrete additives and primers, suited for fast track construction and moisture vapor control, supplement core products that also include self-leveling underlayments.



Plaza Decks

Sika's line of single-ply and liquid-applied membranes deliver watertight protection and long-term durability for a wide variety of building applications and conditions. These membranes stay watertight in buried environments with extreme conditions that include constant dampness, ponding water, high and low alkaline conditions and exposure to plant roots, fungi, and bacteria.



Parking Garages

Select from a wide range of elastomeric, crack bridging waterproofing solutions specially developed to protect and repair concrete exposed to vehicular traffic. Cracks, leaks and other defects in concrete result in accelerated corrosion in reinforced concrete. Corrosion of steel in concrete leads to spalls which, at best are unsightly, and at worst pose a threat to public safety. Sika solutions make concrete impermeable to water and other contaminants. Coatings protect walls and ceilings. High performance aliphatic topcoats offer application flexibility with custom decorative options.



Below Grade

Sika addresses the unique conditions of below grade construction with a variety of admixtures that make concrete impermeable to water, along with high performance waterstop products that result in watertight joints. High performance concrete is the key to producing a concrete that repels water, is more durable, and resists the cracking that often leads to corrosion.



at&t



Nestlé



Major companies like AT&T, the ALDI grocery chain, Kraft Foods, Nestlé, and Volkswagen have looked to Sika for assistance with their building programs and building exteriors. SikaSmart building envelope solutions can be found throughout the spectacular, new Cowboys Stadium in Arlington, Texas, the home of the Dallas Cowboys and the largest venue in the National Football League.

Sika Corporation is headquartered in Lyndhurst, New Jersey, and is a subsidiary of Sika AG, a worldwide leader in the construction products industry with operations in more than 70 countries around the world. This worldwide presence enables Sika to support your needs around the globe with consistent high quality products and services.

Sika has developed a network of experienced contractors—key to proper installation and, ultimately, to the successful performance of

building product and system components. This select group of skilled professionals has been trained by Sika in today's application methods and techniques.

Sika's commitment to our customers goes beyond quality products and an invaluable professional contractor network. Technical support is available to help ensure successful installations. Sika's highly trained group of technical representatives numbering more than 300 individuals is readily available to assist customers across North America.

They help ensure complete customer satisfaction with every project—from technical information and design assistance to installation support and after-project management.

SikaSmart is a holistic approach to building envelope design and protection that ensures products will work together and be an effective and efficient means for protecting a very valuable asset... your building. You'd expect nothing less from a company with a record of achievement spanning 100 years.



THE EIGHTH WONDER OF THE WORLD? BUILDING ENVELOPE SOLUTIONS FROM SIKA.





ROOFING BUILDING ENVELOPE SOLUTIONS FROM SIKA.

From world-renowned art museums to warehouses, roofing systems from Sika Corporation have been providing reliable protection to facilities from around the world for nearly 50 years, in all types of climates.

The roofing system plays an integral role in the protection of the building envelope, shielding it from the elements in a very hostile environment. Ultraviolet rays, ponding water and high winds all conspire to compromise the roof prematurely, leading to leaking, damage to the building, costly repairs, and possibly an early tear-off and re-roof.

Sika responds to these challenges with a variety of roofing systems designed to meet the specific needs and budget of almost any application. Sika's proven roofing systems do much more than simply keep buildings tight to the weather, however. Versatile single-ply and liquid-applied membrane systems boast sustainability features that save building owners money over the life of the roof—features that include unparalleled longevity, outstanding energy efficiency, durability with minimal maintenance, and recyclability.

Sika works with a nationwide network of authorized roofing applicators to understand your needs and provide the right system for your roof. Whether it's a roof coating to extend the life of your existing roof or a new liquid-applied or single-ply roofing system, you can count on Sika and its applicators to provide a technologically sound solution that will protect your building for years and even decades to come.

Schools, libraries, hospitals, stadiums and arenas, retail stores, factories and more around the globe rely on Sika roofing systems to protect their buildings. Many of these systems are still performing after 25 and 30 years of service.

Sika roofing systems address virtually any roofing application, regardless of slope, with configurations specifically developed for low and steep slope roofs, vegetated green roofs, plaza decking and solar roofing.



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EnergySmart Roof®

Reflective cool roof inhibits heat flow from solar radiation into the building interior, reducing air-conditioning energy consumption.

- ▶ Reduces roof temperatures by up to 70° degrees, A-C energy consumption by up to 20%
- ▶ Helps mitigate urban heat island effect



EcoSmart Roof®

Economical and ecologically-responsible roof system that maximizes lifecycle and recycling.

- ▶ Vinyl roof membrane with recycled content and program to recycle at end of service life
- ▶ Extruded polystyrene insulation with 50-year re-use warranty



Solar-Energy Solutions

The addition of solar panels to the rooftop can turn a roofing liability into an energy producing asset.

- ▶ Generates clean, renewable energy
- ▶ Roofing systems compatible with solar panel lifecycle
- ▶ Reflective roof surfaces increase solar panel efficiency



Décor Roof Systems

Look of a standing seam metal roof with watertight integrity and design flexibility of a thermoplastic membrane.

- ▶ Design flexibility regardless of roof slope, shape or complexity
- ▶ An economical alternative to architectural metal
- ▶ Standard and custom colors



Sikalastic RoofPro Systems

Seamless, fully bonded, liquid-applied polyurethane membrane.

- ▶ Ideal for exposed roofing, flashings, gutters, penetrations and other challenging details
- ▶ Cold-applied liquid with more than 25 years of proven performance
- ▶ Self-flashing, does not require pre-assembled flashing



Vegetated Green Roofs

An aesthetically pleasing roofing system that lowers cooling costs and reduces rainwater runoff.

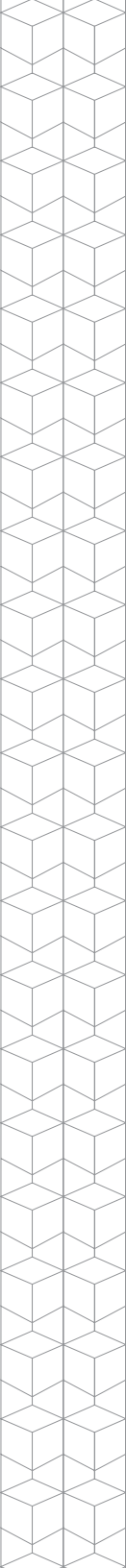
- ▶ Retains up to 75% of rainwater, reducing storm-water runoff
- ▶ Stays cooler than non-reflective dark roofs to save on building cooling expenses
- ▶ Protects the waterproofing membrane from UV radiation, extending its service life



Roof Coatings

Elastomeric coatings provide a seamless waterproof barrier for roof maintenance, restoration and difficult-to-access or highly cluttered rooftops.

- ▶ Enhance roof reflectivity and reduce building cooling costs
- ▶ Extend the life of an existing roofing system
- ▶ Provide a viable option for difficult-to-access areas





EXTERIOR WALLS & WINDOWS

BUILDING ENVELOPE SOLUTIONS FROM SIKA.

Exterior walls provide the first visual impression of a building and often reflect the way we feel about our work environment. The exterior walls also play a key role in climate control, weather protection, and long term sustainability, and thus design requirements for these walls have become increasingly demanding.

Energy savings requirements for exterior walls are stringent and continue to strongly influence building standards. Sika has developed systems and components for these walls that meet the requirements of today's building design challenges while also ensuring safe and economical construction.

Sika provides cost-effective, high-performance solutions for waterproofing, sealing and bonding of exterior walls—and continues to develop new products and systems that satisfy the demands of systems requiring the latest in technological advances. Sika works in close cooperation with leading architects and specifiers to develop product technologies that meet specific market needs and requirements.



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Structural Glazing

Sikasil is a high performance system solution that supports designers and curtainwall manufacturers by offering many years of protection from extreme elements along with enhanced energy savings.

- ▶ Sealing and bonding solutions for the entire system ensure compatibility
- ▶ Design reviews for curtainwall manufacturers and quality control support helps ensure successful installations
- ▶ Allows designers to minimize sight lines while also improving system performance
- ▶ Global track record based on high profile projects from around the world



Silane Sealers

Sikagard Silane Sealers provide excellent protection against water intrusion on concrete, stone and masonry walls. They provide excellent protection without altering the appearance of the existing facade.

- ▶ Extends the life of concrete, masonry and stone facades
- ▶ Does not alter the original appearance - which is a great advantage for stone and masonry facades
- ▶ A complete range that offers silane, siloxane and cream type products for everyday as well as extremely challenging applications



Air Barrier

System approach to protect the inside environment from the outside.

- ▶ Sikagard liquid air barrier, SikaFlex 11 FC polyurethane seam sealer, self-adhered Sika MultiSeal transition tape and through wall flashing.
- ▶ Comprehensive details supported by a vigorous compatibility test program to ensure transitions work.
- ▶ ABAA approval for the assembly



Weather Sealing of Facade Joints

Sikasil and Sikaflex elastomeric sealants offer a full range of options for weathertight sealing of joints in building facades.

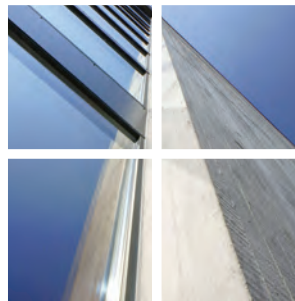
- ▶ Hi UV resistance and long-term durability, proven in tough climates around the world
- ▶ Non-staining, will not discolor substrates
- ▶ Available in a wide range of architectural colors and packaging



Wall Coatings

Sikagard facade coatings provide long-term protection of reinforced concrete building facades from the ingress of carbon dioxide and water.

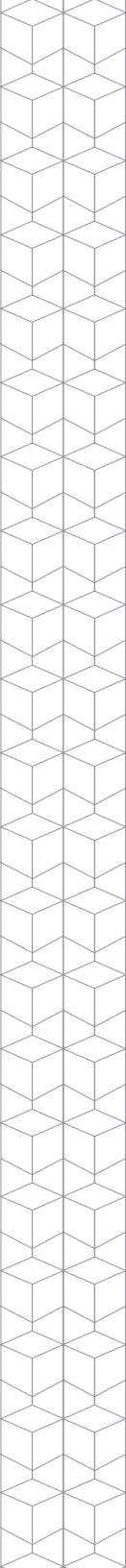
- ▶ Enhance the aesthetics of concrete and masonry
- ▶ Extends the life of reinforced concrete
- ▶ Breathable coatings, will not act as a vapor barrier



Insulating Glass

Complete solutions for maintaining both weathering and energy performance. Includes primary sealant, polyurethane and silicone secondary sealants, with improved properties to maintain high U values.

- ▶ Comprehensive solutions for sealing both standard and high energy saving coated glass and gas filled insulating glass units
- ▶ New innovations in high strength insulating glass silicone sealants lead to ultra high performance under many extremes while also providing for improved gas retention so units maintain high insulating value for years
- ▶ Consistent with Sika approach—supply important building system components that guarantee compatibility and color matching consistency





BALCONIES

BUILDING ENVELOPE SOLUTIONS FROM SIKA.

Balconies must do it all. They are a part of a building's exterior, but at the same time are also considered to be a part of the building's living space and thus must be functional and attractive.

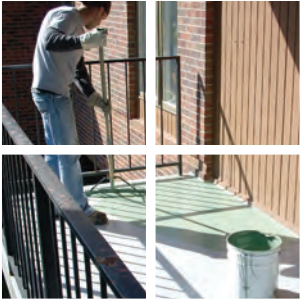
Balconies and terraces are highly stressed because they consist of relatively thin sections of concrete permanently exposed to the weather on multiple sides. Effects from heat, frost, rain, chlorides and other pollutants all join together to cause cracks and leaks which can ultimately lead to failure of the concrete.

Sika has high-performance products that will protect your building and your investment with maximum waterproofing protection, while still offering a wide range of aesthetic options. Sika's diverse product line includes polyurethanes, epoxies and cement based coatings as well as high-performance sealants that are designed to make concrete and masonry impermeable to water. These products offer the flexibility needed to handle all your balcony waterproofing needs.



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Sikalastic Traffic Systems

Complete one- and two-component polyurethanes, elastomeric waterproofing systems for concrete balconies and terraces.

- ▶ Outstanding resistance to abrasion and wear
- ▶ Low odor, fast curing systems available
- ▶ Range of color options, including custom colors
- ▶ Decorative quartz and flake systems



Sikagard FlexCoat

A flexible, cement-based protective coating system.

- ▶ Durable and weather resistant acrylic topcoat
- ▶ Water vapor permeable
- ▶ Range of color options, including custom colors. Decorative finishes available



Sikadur Balcony System

A low modulus, epoxy-based durable protection system.

- ▶ Easy care, slip resistant surface
- ▶ Superior resistance to abrasion and wear
- ▶ Can be colored with solid or blended aggregates for a wide color selection



Sikaflex Sealants

Elastomeric, polyurethane sealants for sealing joints.

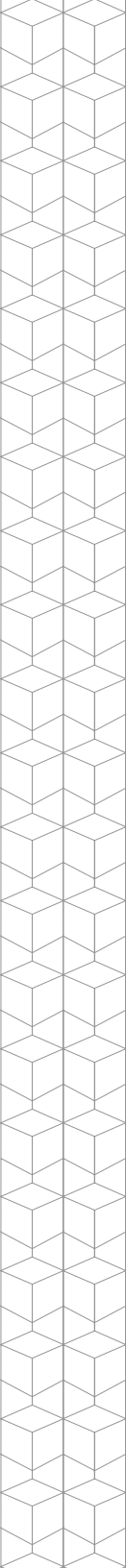
- ▶ Fast curing one- and two-component sealants
- ▶ Paintable and water submersible
- ▶ Available in a wide range of color options

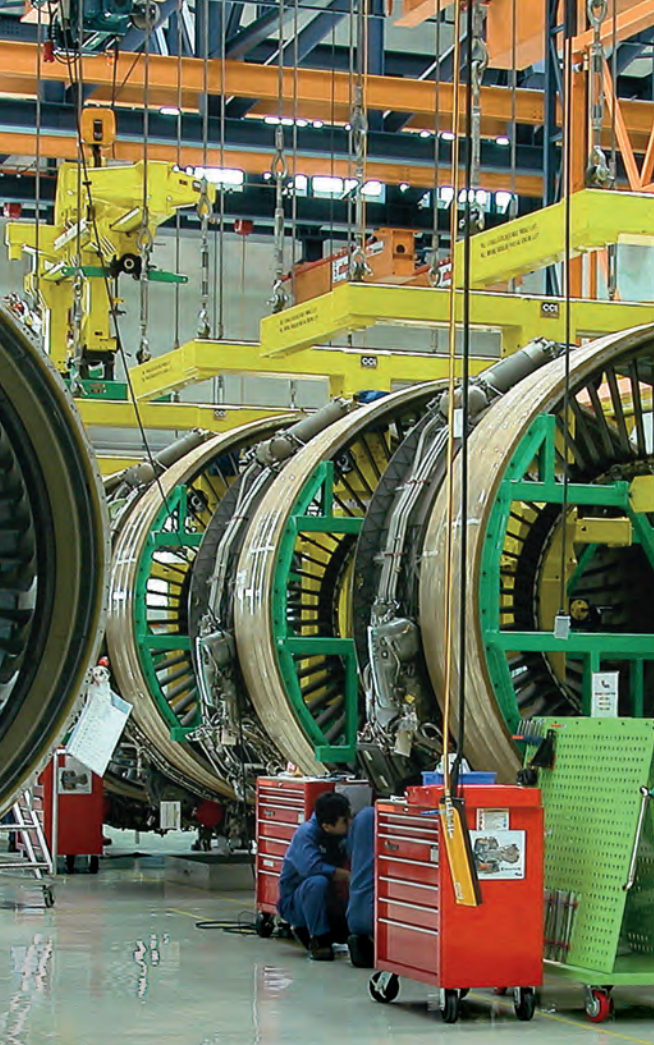


Sikagard Facade Coatings

Water-based acrylic coatings for underside of balconies and eyebrows.

- ▶ Waterproof while remaining water vapor permeable
- ▶ Outstanding resistance to dirt and mildew
- ▶ Highly durable, exceptional resistance to chalking and UV resistance





INTERIOR & MECHANICAL SPACES BUILDING ENVELOPE SOLUTIONS FROM SIKA.

Industrial, commercial and institutional buildings require floor systems that can withstand the daily rigors associated with manufacturing and processing. These floors are among the most exposed and highly stressed parts of any building.

Sika's advanced flooring products safeguard both facility flooring and the building owner's bottom-line, with applications in a wide range of industries that include food and beverage, electronics and static control, clean rooms, pharmaceuticals, education, transportation, commercial / institutional construction, and general manufacturing.

Sikafloor is the most innovative and durable polymer flooring product line available today. These products are specifically formulated to create sturdy, seamless floor surfaces that are long-lasting and exhibit unparalleled resistance to hazards typically found in an industrial setting. The products protect against wear, abrasion, chemicals, impact, thermal shock, stains, harsh chemicals, electrostatic discharge, spark/ignition, and UV light.

In addition, Sikafloor products supply an array of aesthetic and functional benefits which include excellent adhesion to concrete, light reflection for illumination of the workplace, high-gloss to satin finishes, high-wear finishes, numerous decorative options and fast-cure options for quick turnarounds.

Sika offers a diverse selection of epoxy and urethane floor coatings and resurfacers that comply with air quality mandates and help contribute to green building efforts. Many of the products are odor-free and VOC-compliant.



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Decorative Flooring (Lobbies, Concourse Areas)

A dynamic range of colors and textures. Terrazzo, quartz and flake options provide varying degrees of thickness and surface texture, offering designers utmost flexibility. Color-Fast UV stable resin technologies ensure lasting aesthetics



Industrial Flooring and Heavy-Duty Surfacing (Manufacturing, Kitchen Areas)

From seamless thin film applications where durability and wear resistance are required to heavy-duty screed applications, Sika offers the most advanced technologies. Thermal shock, heat resistance, non-slip textures and scratch resistance are typical requirements in a wide range of facilities.



Electrostatic Control (Clean Rooms, Manufacturing Areas)

Static electricity can result in significant damage, injury or financial loss when electronic components or volatile chemicals are involved. Sikafloor ESD Control Flooring Systems protect the work environment from electrostatic discharge.



Wall Coatings (Manufacturing, Laboratory Areas)

Technologically advanced wall system creates smooth, seamless environments. Wrapping or tying the wall, floor and base into one smooth surface eliminates cracks and crevices that encourage bacterial growth, harbor dirt. Attractive, high performance surfaces are easy to clean and maintain.



Comfort Flooring (Laboratories, Patient Care Areas)

ComfortFloor strikes balance between comfort and toughness by combining softness “under foot” with durability. Provides relief in areas where personnel walk or stand for long periods of time, yet stands up to high levels of pedestrian traffic, chair castors and wheeled loads. Reduces footfall sound and horizontal noise transmission, resulting in dramatically reduced noise levels.

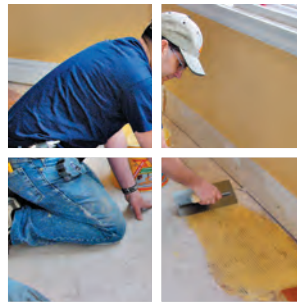


Sikalevel Self-Leveling Underlayments (Interior Spaces Receiving Final Floor Finish)

A fully integrated and engineered system of floor leveling solutions.

A fully integrated and engineered system of floor leveling solutions.

- ▶ Highly fluid cement-based floor leveling material (underlayments)
- ▶ Choice of primers to meet all different flooring needs
- ▶ Preparatory products offered as a part of the complete package



SikaBond Adhesives (For All Wood Flooring)

Polyurethane elastic adhesives for wood floor bonding.

- ▶ Excellent adhesion for all types of wood including wide planks on a wide variety of substrates
- ▶ Low VOC meets LEED and SCAQMD requirements
- ▶ Creates sound reduction and sound dampening layer



Sikagard Epoxy Coatings (Mechanical Rooms)

Chemical resistant and moisture tolerant epoxy coatings.

- ▶ Excellent adhesion to concrete
- ▶ Superior abrasion resistance to long-term wear
- ▶ Outstanding chemical resistance for long-term protection



PLAZA DECKS

BUILDING ENVELOPE SOLUTIONS FROM SIKA.

Plazas are an important feature for many buildings, providing the welcome ambiance of an outdoor area for people to gather and reflect. Oftentimes these locations include seating, walkways, trees and shrubs. The wearing surface for plazas is usually architecturally significant and typically consists of some type of paver—set on pedestals, atop a mortar bed, or on a concrete-wearing slab. Plazas commonly function as the roof of an occupied space directly below, and thus are waterproofed to protect the structure, property and occupants below from water and moisture penetration.

While plazas are exposed to similar challenges that roofs and facades face, they also must withstand heavy pedestrian traffic and sometimes even vehicular traffic. They are often exposed to ponding water and deicing salts. Future access to the waterproofing system below is more difficult because of overburden which typically consists of the wearing surface and landscaping—and repairs can be very costly. Flashing details are complex as the various elements converge at the structural deck level, where the waterproofing system resides. All of these challenges require a waterproofing system with a proven track record capable of standing up to these demands for years to come. Choosing the right waterproofing system for plaza decks is one of the most important decisions you will make on your project.

Sika has been the preferred waterproofing system architects, consulting engineers and building owners have looked to for plaza deck applications for more than 30 years. Sika offers a wide range of waterproofing solutions that include single-ply and liquid-applied membranes, as well as polyurethane and silicone sealants—all designed to perform even under the most challenging circumstances.



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Self-Adhered Waterproofing Membrane System

Composite sheet comprised of heat-weldable G476 waterproofing membrane with closed-cell foam backing. Puncture-resistant membrane performs in ponded water conditions, is resistant to roots and decay.

- ▶ All-in-one self-adhered product that increases applicator productivity and expedites installation
- ▶ Foam backing factory-coated with pressure sensitive adhesive protected by a plastic release liner which is removed during installation
- ▶ Pressure sensitive adhesive provides tenacious bond to substrate, mitigating potential water migration under the membrane
- ▶ Range of membrane thicknesses to match application, overburden type, and specific project requirements



Grid Waterproofing Membrane System

For renovation projects with contaminated substrate, or when removal of existing waterproofing isn't practical. Offers all the advantages of loose-laid membrane installation with added security of adhered grid strips.

- ▶ Installed economically over existing waterproofing with minor deck preparation and minimal removal of existing waterproofing system
- ▶ Grid strips compartmentalize waterproofing system into smaller areas, effectively limiting scope of overburden removal if problems develop



Sikalastic RoofPro Inverted

Fully-adhered and seamless, this liquid-applied waterproofing membrane delivers the design flexibility needed to waterproof the most challenging projects.

- ▶ Cold-applied eliminates the need for kettles and torches
- ▶ Single-component polyurethane comes "ready-to-use" and is easy to apply
- ▶ Alkali-resistant products allow for the direct application of concrete topping and paver setting materials



Sikaflex and Sikasil Sealants

A full range of flexible polyurethane and silicone sealants designed to waterproof cracks and joints with excellent joint movement properties.

- ▶ SWR Institute validated, ensuring that products meet the industry's most demanding requirements
- ▶ High Shore A hardness and abrasion resistance allow for durable horizontal applications
- ▶ Fast-cure formulas allow for rapid turnaround time



PARKING GARAGES BUILDING ENVELOPE SOLUTIONS FROM SIKA.

Parking structures are faced with a unique set of challenges and considerations. Designed for decades of daily vehicular traffic, they endure prolonged exposure to the harshest elements, including snow and ice, chemicals and abrasion, thermal movement, and demanding load conditions. Structures must also be safe for users, aesthetically pleasing and complimentary to adjacent building architecture.

Unprotected concrete exposed to rainfall, freeze-thaw, carbonation and deicing salts will deteriorate. "Passive" protection originally provided by the cement paste around the reinforcing steel will be destroyed, and unseen corrosion of embedded steel will occur, often resulting in spalls, cracks and leaks.

Sika's wide range of polyurethane and epoxy traffic coatings are designed to make concrete decks impermeable to water while offering durability and flexibility that meets the most demanding service conditions. Sikalastic Traffic Systems offer a full range of elastomeric, crack-bridging waterproofing solutions.

Sikagard protective coatings for walls and ceilings are formulated for ease of application and environmental safety, in addition to numerous performance benefits. These benefits include carbonation reduction, protection against water, chlorides and chemical ingress, hairline crack sealing, protection against cracking caused by dynamic and thermal movement, and improved light reflectivity and brightness.



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Sikalastic Traffic Systems

Complete single and dual component elastomeric waterproofing traffic systems, as well as high performance aliphatic topcoats. Systems offer application flexibility as well as decorative options.

- ▶ Excellent crack-bridging properties and flexibility, even at low temperatures
- ▶ Outstanding resistance to abrasion and wear
- ▶ Impervious to water and deicing salts
- ▶ Range of standard colors as well as custom and decorative options



Sikagard Coatings

Sikagard coatings have been evaluated for in-service durability and have been documented to protect concrete and halt the penetration of chlorides and carbonation for more than a decade.

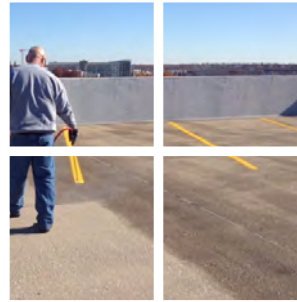
- ▶ Water-based, non-toxic and VOC compliant
- ▶ High moisture vapor transmission rates
- ▶ Outstanding resistance to dirt and mildew
- ▶ Exceptional chalking and UV resistance as well as color stability



Sikadur Epoxy Broadcast Overlay

A composite system of aggregate and low-modulus epoxy resin binder specifically formulated for exceptional wear and chemical resistance as well as thermal compatibility with concrete.

- ▶ Superior resistance to abrasion and wear
- ▶ Easy to apply single product system
- ▶ Low odor and fast turnaround
- ▶ Optional polyurethane seal coats



Silane Sealers

Sikagard Silane Sealers provide excellent long term protection for parking garages, for the ingress of chloride and water

- ▶ Enhances the service life of the parking garage
- ▶ Penetrates into concrete and protects the reinforcing bars
- ▶ Protects the concrete without creating a vapor barrier
- ▶ Available in different concentrations for all possible project needs & budgets



Sikasil Sealants

Complete Line of durable silicone sealants specifically designed for long term use in roadways and parking structures

- ▶ Capable of handling extreme joint movement, up to +100/-50% expansion/compression
- ▶ Superior ultraviolet and weathering resistance
- ▶ Rapid cure system available for ultra-fast turnaround
- ▶ Fantastic unprimed adhesion to concrete and most common roadway substrates



Sikaflex Sealants

Full Range of polyurethane sealants for overhead, vertical and horizontal joints provide permanent movement capability equal to 50 percent +/- joint movement.

- ▶ Leader in performance since 1970's
- ▶ High chemical and tear resistance
- ▶ Elastic durability to below -20 degrees F (-29 degrees C)
- ▶ Compatible with Sikalastic Traffic and Sikagard coating systems



BELOW GRADE BUILDING ENVELOPE SOLUTIONS FROM SIKA.

Hidden from sight, the below grade portion of a building typically serves some essential function and always receives special attention from savvy building owners, designers and contractors. Parking garages, mechanical rooms, storage areas, retail stores, offices and high-end, moisture-free data storage centers filled with high-tech equipment – any of these services may be located below grade in buildings. Preventing moisture from getting into these spaces is critical and presents a specific set of challenges.

Below grade construction is constantly exposed to moisture and rarely has an opportunity to fully dry out. Penetrations through foundation walls and construction joints provide an easy path for water infiltration. Urban areas often have tight site constraints that inhibit full access to the exterior side of the foundation walls. Construction errors that include improper concrete consolidation, displaced waterstops and inappropriate concrete mix designs can result in numerous opportunities for water to enter the finished below grade space. Correcting problems “after the fact” is especially challenging because of a lack of direct access.

Sika has more than 100 years of experience in watertight concrete construction. The company has developed a variety of concrete admixtures for the production of watertight concrete, complemented by a complete spectrum of products for watertight joints. Sika has the ability to combine multiple products and technologies into one watertight system. This enables the company to offer highly sophisticated and custom-tailored solutions that address all below grade needs in a highly economic manner.



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Concrete Density

Reduced water-cement ratio results in a denser, more durable concrete.

- ▶ Sikament and Sika ViscoCrete admixtures are highly effective PCE (Polycarboxylate) based products
- ▶ Sikament and Sika ViscoCrete facilitate cost-effective water reduction, which is important in watertight concrete applications



Concrete Technology

Appropriate technology should always be considered when new watertight concrete structures are required.

- ▶ Appropriate concrete consistency should be selected to ensure proper compaction in critical locations such as joints and highly reinforced areas
- ▶ Self-Consolidating Concrete with Sika ViscoCrete offers advantages when compared to conventional concrete



Watertight Concrete

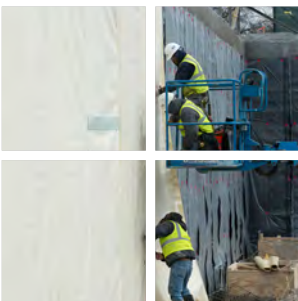
Reduced water absorption and increased resistance against water intrusion, even under water pressure, are critical to preventing leaks.

- ▶ Integral concrete solutions for watertight structures with Sika 1+ hydrophobic liquid, Sika WT -215P crystalline, and Sika Watertight Powder

Pre-Applied Waterproofing System(s)

SikaProof is a waterproofing solution for pre-applied applications. It is ideal for blindside waterproofing, zero lot line waterproofing as well as between slab and mud slab waterproofing.

- ▶ SikaProof utilizes a special grid technology for no lateral water migration.
- ▶ It features a state of the art mechanical bonding process providing a superior bond as well as ease of installation.
- ▶ Technical Service includes providing project specific details



Corrosion of Concrete Reinforcement

Corrosion of steel in concrete represents a significant problem for concrete structures.

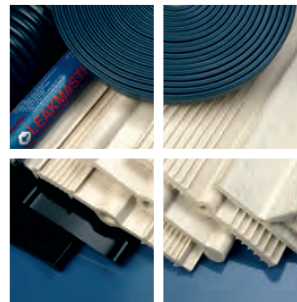
- ▶ Sika's corrosion inhibitors such as Sika BNI or migrating corrosion inhibitor, Sika Ferrogard, will increase corrosion protection and prolong the overall service life of structures



Concrete Cracking

The ability to resist cracking induced by internal or external forces is extremely important in watertight concrete.

- ▶ Cracks in the concrete serve as a source of water ingress, which can lessen concrete durability
- ▶ The Sika Fiber product line, accompanied by shrinkage-reducing admixtures like Sika Control 40, are effective tools in preventing concrete cracking



Engineered Watertight Joints

Proper waterstop selection, detailing, and installation is critical for any joint that must prevent water ingress, to ensure a leak-free structure. Sika offers various types of joint solutions ...

- ▶ A complete line of engineered PVC waterstops
- ▶ Strip-applied waterstops ease of installation for non-moving joints
- ▶ Fuko hose systems provide injection areas for joint maintenance if required



Post-Applied Waterproofing System(s)

Sika offers several solutions for post applied waterproofing including SikaPlan. These systems offer solutions for your needs for both new construction and restoration projects.

- ▶ SikaPlan, a global product, offers a compartmentalization program for the most difficult applications.
- ▶ Solutions from state of the art membrane technology to traditional Peel and Stick systems

Sika – Your Local Partner with a Global Presence

Sika is a globally active company in the specialty and construction product and chemicals businesses. It has subsidiary manufacturing, sales and technical support facilities in more than 70 countries around the world.

Sika is THE global market and technology leader in waterproofing, sealing, bonding, dampening, strengthening and protection of buildings and civil engineering structures.

Sika has more than 13,000 employees worldwide and is therefore ideally positioned to support the success of its customers.



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