HIGH PERFORMANCE SEALANTS

JOINT SEALING & ADHESIVE SYSTEMS
TYPICAL SEALANT APPLICATIONS

Expansion Joints in Park Deck:
Sikaflex, Sikasil

Expansion Joints for runways:
Sikaflex, Sikasil

Perimeter Joints*:
Sikaflex, Sikasil, SikaHyflex

EIFS Perimeter joints*:
Sikaflex, Sikasil, SikaHyflex

Paver Joints:
Sikaflex

Expansion Joints For Highway:
Sikaflex, Sikasil

Sikaflex and Sikasil products are options. Best recommendation depends on exact substrate type, conditions of use and other specified requirements. Contact your local Sika representative for assistance.
Expansion Joints in Cast-in-Place Concrete: Sikaflex, Sikasil

Coping Joints: Sikaflex

Reglets: Sikaflex

Perimeter Joints: Sikaflex, Sika Duoflex

Butt Joint Glazing: Sikasil

Wet Glazing: Sikasil

Curtain Wall Expansion Joint: Sikasil

Submerged Joints: Sikaflex

Expansion Joints in Granite*: Sikaflex, Sikasil

Expansion Joints in Brickwork: Sikaflex, SikaHyflex

Door Perimeter Seal: Sikaflex

Control Joints: Sikaflex
GLOBAL LEADERSHIP

A RECOGNIZED WORLD LEADER IN SPECIALTY construction chemicals and products specifically engineered for the concrete industry, Sika has been answering the needs of producers and contractors since 1910. With an international network of marketing and production companies, Sika now operates in over 90 countries around the world. This strong global network allows Sika to maintain continuing levels of excellence, and to find and implement innovative solutions that meet the changing requirements of our customers. Our goal is to remain a leader through innovation, not only in product design, but also in product quality assurance, delivery systems and customer relations.

SIKASIL SILICONE SEALANTS

Sikasil silicone is the product of choice when specific characteristics are desired in a sealant. Typical conditions favoring selection of Sikasil silicone sealants occur in glass-to-glass and glass-to-metal interface in glazing systems.

Important characteristics include:

**Adhesion:** Excellent adhesion to glass including conditions subjecting sealant to reflected UV radiation at the bond line.

**Color Retention:** White and other light colors will not yellow with age. Therefore, white remains white.

**Heat Resistance:** Applications subjecting sealant to unusually high temperatures can often be sealed with Sikasil silicone sealant.

SIKAFLEX POLYURETHANE SEALANTS

Proven over the years, Sikaflex Polyurethane is the product of choice in a wide range of construction applications. Polyurethanes exhibit many characteristics that offer advantages in certain applications.

These characteristics are:

**Adhesion:** Sikaflex sealants will bond to more surfaces, particularly porous substrates such as concrete and masonry, without the use of primer. It is an accepted fact that Sikaflex polyurethanes have superior wetting action in achieving a bond to various substrates under jobsite conditions.

**Dirt Resistance:** Because of their exclusive chemical design, Sikaflex sealants exhibit far less dust and dirt pick-up during cure and over the lifetime of a building.

**Substrate Staining:** Sikaflex sealants possess an extremely stable consistency and will not stain or discolor virtually any common substrate.

**Paintability:** Sikaflex sealants can be treated with most coatings and paints without the risk of delamination.

**Water Immersion:** Many Sikaflex sealants can be placed in totally immersed environments without being affected by the action of water.
**Sikaflex®-1a**
One part polyurethane, elastomeric sealant/adhesive

**Advantages:**
- Eliminates time, effort, and equipment for mixing, filling cartridges, pre-heating or thawing, and cleaning of equipment.
- Fast tack-free and final cure times.
- High elasticity - cures to a tough, durable, flexible consistency with exceptional cut and tear-resistance.
- Excellent adhesion - bonds to most construction materials without a primer.
- Capable of ±35% joint movement.
- Certified to the NSF/ANSI Standard 61 for potable water.

**Where to Use:**
- Designed for all types of joints where maximum depth of sealant will not exceed 1/2 in.
- Excellent for small joints and fillets, windows, door frames, reglets, flashing, common roofing detail applications, and many construction adhesive applications.

**Packaging:** 10.1 fl. oz., 20 fl. oz., 4.5 gal

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**Sikaflex®-1a+**
One part polyurethane, elastomeric sealant/adhesive

**Advantages:**
- Fast tack-free and final cure times.
- High elasticity - cures to a tough, durable, flexible consistency with exceptional cut and tear resistance.
- Can be applied to green concrete 24 hours after pour.
- Can be applied to damp concrete 1 hour after getting wet.
- Capable of ±35% joint movement.
- Solvent Free

**Where to Use:**
- Designed for all types of joints where maximum depth of sealant will not exceed 1/2 in.
- Excellent for small joints and fillets, windows, door frames, reglets, flashing, common roofing detail applications, and many construction adhesive applications.

**Suitable for vertical and horizontal joints; readily placeable at 40°F.**

**Packaging:** 10.1 fl. oz. (300 mL) Cartridge and 20 fl. oz. uni-pac Sausages

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**Sikaflex®-15 LM**
High-performance, low-modulus elastomeric sealant

**Advantages:**
- Low modulus of elasticity.
- Capable of +100% / -50% joint movement.
- Eliminates time, effort, waste, and equipment clean-up.
- Cures to a durable, flexible consistency.
- Exceptional cut and tear resistance.
- Bonds to most construction materials without a primer.
- Two-hour UL fire rating when used with Ultra Block®

**Where to Use:**
- Excellent for moving joints in vertical applications.
- Typical applications include joints in concrete panel and wall systems, around window and door frames, reglets, flashing, and common roofing detail applications.
- Exceptional sealant choice for high-rise and facade applications where high movement capability is required.

**Packaging:** 10.1 fl. oz., 20 fl. oz., 4.5 gal pail, 52 gal

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**Sikaflex®-1c SL**
High performance, self-leveling, one part polyurethane sealant

**Advantages:**
- Self-leveling, pourable
- Accelerated curing
- Can be applied to green concrete 24 hours after pour
- Can be applied to damp concrete 1 hour after getting wet
- Extremely elastic & High durability
- Resists aging, weathering
- Jet fuel resistant
- Water Immersion Applications

**Where to Use:**
- Sidewalks, Balconies, Pavements, Terraces.
- Warehouses, Factories, Civil Structures.
- Plazas, Pitch Pans.
- Canals and Water Treatment.

**Packaging:** 10.1 fl. oz. & 29 fl. oz. Cartridge, 4.5 gal pail, 50 gal drum
Sikaflex®-11 FC
One part advanced polyurethane, elastomeric sealant/adhesive

**Advantages:**
- Excellent adhesion on all cement-based materials, brick, ceramics, glass, metals, wood, epoxy, polyester and acrylic resin.
- Fast cure rate.
- Good weathering and water resistance.
- Non-corrosive.
- Can be painted over with water, oil, and rubber-based paints. (Preliminary tests recommended).
- High durability.

**Where to Use:**
- An elastic adhesive for: cover plates, gaskets and covering, acoustic ceiling tiles, floor moldings and door sills, light weight construction materials, wood or metal, door frames and roof tiles.
- An elastic joint sealer for: Air ducts and high vacuum systems, containers, tanks, and silos, gaskets in openings in walls or floors for ducts, piling, reservoirs or water retaining structures.
- Aluminum fabrication and bolted lap joints.

**Packaging:** 10.1 fl. oz. Cartridges

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Sikaflex® Textured
High-performance, low-modulus elastomeric sealant

**Advantages:**
- Excellent adhesion – bonds to most construction materials without a primer.
- Textured appearance blends well to rough or stucco type surfaces.
- Hides imperfections from tooling that a smooth sealant does not.
- Excellent resistance to aging, weathering.
- Paintable with water-, oil- and rubber-based paints.

**Where to Use:**
- Designed for all types of joints where maximum depth of sealant will not exceed 1/2 inch.
- Suitable for vertical and horizontal joints; readily placeable at 40°F (4°C).
- Has many applications as an elastic sealant between materials with dissimilar coefficients of expansion.

**Packaging:** 10.1 fl. oz. Cartridges
**Sikaflex®-2c NS EZ Mix**
Two-component, non-sag, polyurethane elastomeric sealant

**Advantages:**
- Chemical cure allows the sealant to be placed in joints exceeding ½ in. in depth.
- High elasticity with a tough, durable, flexible consistency.
- Exceptional cut and tear resistance.
- Available in 35 architectural colors.
- Non-sag even in wide joints.
- Certified to the NSF/ANSI Standard 61 for potable water.
- Capable of +50% joint movement.

**Where to Use:**
- Intended for use in all properly designed working joints with a minimum depth of ¼ inch.
- Ideal for vertical and horizontal applications.
- Submerged environments such as canal and reservoir joints.

**Packaging:** 1.5 gal. unit, 3 gal unit. Color-pak is purchased separately. Limestone Gray color available pre-pigmented.

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**Sikaflex®-2c SL**
Two-component, self-leveling, polyurethane elastomeric sealant

**Advantages:**
- True self-leveling properties.
- Capable of ±50% joint movement.
- Chemical cure allows the sealant to be placed in non-moving joints exceeding 1/2 in. in depth.
- Available in 35 architectural colors.
- Self-leveling consistency, easy to apply in horizontal joints.
- Exceptional adhesion to most substrates without priming.

**Where to Use:**
- Intended for use in all properly designed working joints with a minimum depth of 1/4 inch.
- Ideal for horizontal applications.
- Adheres to most substrates commonly found in construction.
- Submerged environments such as canal and reservoir joints.

**Packaging:** 1.5 gal. unit, 3 gal. units, 4.5 gal unit. Color-pak is purchased separately. Limestone Gray color available pre-pigmented.

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**Sikaflex®-2c NS Arctic**
Two-component, non-sag, polyurethane elastomeric sealant for arctic weather applications

**Advantages:**
- Easy to mix, even at below freezing temperatures, without preconditioning.
- High elasticity with a tough, durable, flexible consistency.
- Comes in 35 standard architectural colors.
- Chemical cure allows the sealant to be placed in greater depths for non-moving joints/cracks.
- Exceptional cut and tear resistance.
- Non-sag even in wide joints.
- Fast cure in cold weather.

**Where to Use:**
- Intended for use in all properly designed working joints with a minimum depth of ¼ inch.
- Ideal for vertical and horizontal applications.
- Adheres to most substrates commonly found in construction.
- Mixable and placeable at temperatures as low as 15° F.

**Packaging:** 1.5 gal. unit. Color-pak is purchased separately.
**SikaHyflex®-150 LM**

One part, low modulus, hybrid sealant

**Advantages:**
- Fast skin time
- Multi-substrate adhesion
- Superior UV resistance and weathering
- Color retention – white stays white
- Can be over-painted soon after application (once skin has formed)
- Very low VOC < 12g/L
- Non-staining

**Where to Use:**
- For joints or gaps connecting dissimilar substrates – e.g. vinyl to concrete, aluminum to EIFS.
- Window perimeter, expansion joints, curtain wall construction.
- For applications that require both paintability and adhesion to non-porous substrates
- When easy cold weather application is desired

**Packaging:** 10.1 fl. oz. Cartridge, 20 fl. oz. Uni-pac sausage

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**SikaHyflex®-407 EverFlash Universal**

Universal Flashing and Weather Barrier Sealant

**Advantages:**
- Unprimed adhesion to challenging, low surface tension surfaces such as polyethylene, polypropylene and polyolefins.
- Excellent long term UV and weatherability.
- Provides unique solutions to waterproofing tricky details and membrane/facade transitions.
- Can be painted over with most acrylic coatings.

**Where to Use:**
- Peel & stick window flashing and wraps, nonwoven spunbound window flashing and wraps.
- Polyethylene wraps and surfaces, polypropylene surfaces and common polyolefins. PVC, steel, metal, aluminum and glass.
- All connection details specified for the building envelope to achieve a weather tight building.
- Between flanged windows and weather barriers.
- Window and door perimeters where movement is applicable.

**Packaging:** 20 fl.oz. (600ml) Sausages

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**Sika® Loadflex® 524 EZ**

One-component, gun-grade, window and door flashing, sealing and adhering compound.

**Advantages:**
- Quick-set formula reduces down time.
- Material can be shaved off smooth as early as 5 minutes or as late as 24 hours after placement at 73°F (23°C).
- Cures at temperatures down to -13°F (-25°C).
- Hard, load-bearing filler designed to withstand industrial traffic.
- Seals joints from collecting dirt, dust and debris.
- Two components, easy to use, 1:1 mix ratio.

**Where to Use:**
- Sika® Loadflex® -524 EZ is recommended for use as filler for static interior, horizontal saw cuts or preformed control and construction joints.
- Typically installed in facilities such as warehouses and industrial plants, where such joints are subject to load-bearing conditions involving wear and impact.
- Sika® Loadflex® -524 EZ is also used for repairing interior concrete slabs that have experienced random cracking.

**Packaging:** Case of 12 x 20 oz. side-by-side cartridges (10 oz. A; 10 oz. B),10 US gallon unit (Part A 5 gal, Part B 5 gal)
Sikasil®-WS 290
Ultra low modulus, neutral cure silicone sealant

Advantages:
- Unaffected by most atmospheric conditions
- One-component, ready to use.
- Non-staining
- Excellent adhesion, bonds to many substrates without priming.
- Ultra low modulus.
- Joint movement +100/-50%
- Excellent gunnability in all temperatures

Where to Use:
- Sealing expansion and control joints in precast concrete panels, metal curtain walls and EIFS.
- As a weatherseal in glass to glass butt joint glazing.
- As a weatherseal in nonstructural glazing applications including gap, toe and heel beads.

Packaging: 10.1 fl.oz. plastic Cartridges, 20 fl.oz. Sausages, 2 gal. Pails

Sikasil®-WS 295
Neutral cure, weather sealing silicone sealant

Advantages:
- Excellent durability, Versatile medium modulus
- Non-staining
- Joint movement ±50%
- Excellent adhesion, bonds to many substrates without priming.
- Excellent adhesion
- One-component
- Excellent gunnability in all temperatures
- Unaffected by most atmospheric conditions

Where to Use:
- As a weatherseal in both conventional glazing and structural glazings applications, including cap, toe and heel beads.
- As a weatherseal in glass to glass butt joint glazing.
- Sealing expansion and control joints in precast concrete panels and metal curtain walls.
- Perimeter sealing of doors, windows and other building components.

Packaging: 10.0 fl.oz. Cartridge, 20 fl.oz. Sausage, 2 gal Pails

Sikasil®-WS 290 FPS
Ultra low modulus, neutral cure, field pigmentable silicone sealant

Advantages:
- Excellent adhesion
- One-component, plus color pack
- Excellent gunnability in all temperatures
- Ultra low modulus
- Unaffected by most atmospheric conditions

Where to Use:
- As a weatherseal in glass to glass butt joint glazing.
- As a weatherseal in nonstructural glazing applications, including cap, toe and heel beads.
- Exterior Insulation Finish Systems (EIFS) and numerous other areas requiring a high-performance sealant.

Packaging: 1.5 gal pails (5.7 L), Silicone color packs sold separately.

Sikasil®-WS 295 FPS
Neutral cure, field pigmentable silicone sealant

Advantages:
- Excellent adhesion
- Non-staining
- Joint movement ±50%
- Excellent gunnability in all temperatures
- One-part plus color pack
- Unaffected by most atmospheric conditions
- Primerless adhesion to concrete

Where to Use:
- As a weatherseal in both conventional glazing and structural glazing applications, including cap, toe and heel beads.
- As a weatherseal in glass to glass butt joint glazing.
- Sealing expansion and control joints in precast concrete panels and metal curtain walls.
- Perimeter sealing of doors, windows and other building components.
- Adhering stiffeners to building panels.
- Excellent for use in unitized curtain wall systems.

Packaging: 1.5 gal pails (5.7 L), Silicone color packs sold separately.
**Sikasil®-GP/GP High Temp Red**

*General purpose, one-component, non-sag, elastomeric, RTV acetoxy silicone sealants*

**Advantages:**
- One-component ready to use.
- Joint movement ±25%.
- Excellent adhesion, bonds to many substrates without priming.
- Fast Cure - move assembled or sealed parts quickly.
- Wide service temperature
- High durability.
- Superior gunning & tooling.
- High temperature resistance up to 550°F (GP High Temp Red).

**Where to Use:**
- Sealing & glazing of windows, doors and skylights.
- Conventional glazing and Storefronts.
- Kitchen and bath countertops, Sanitary seals.
- HVAC, Plumbing, Roofing, Sealing trucks, trailers and RVs.
- Marine applications, Appliance Assembly.
- Excellent for dynamic joint movement & dissimilar materials.

**Packaging:** 10.1 fl. oz., 52 gal Drum

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**Sikasil®-N Plus**

*One-component, non-sag, elastomeric, 100% RTV neutral cure silicone sealant*

**Advantages:**
- Extremely long service life.
- Excellent flexibility for dynamic joint movement.
- Bonds to most substrates without priming.
- Ready to use, no mixing required.
- AAMA Certified component for window backbedding/glazing.
- All season ease of application.
- Fungicide additive for mildew resistance.

**Where to Use:**
- Window and door fabrication, conventional glazing.
- Back bedding and cap, toe and heel beads.
- Perimeter sealing of windows, doors and skylights.
- Expansion and control joints.
- HVAC and white goods assembly.
- Kitchen and bath countertops/solid surfaces, Sanitary Seals.
- Marine cabins, Truck/trailer/auto/RV.

**Packaging:** 10.1 fl. oz., 20 fl. oz., 4.5 gal Pail, 52 gal Drum

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**Sika® Silbridge-300**

*Pre-formed, elastomeric silicone profile*

**Advantages:**
- High tear resistance
- Ease of installation
- Color fast formulation
- Wide operational temperature range
- Non corrosive and corrosion resistant
- Resistant to ultraviolet exposure and weathering
- Capable of sealing high movement joints
- Reduces stress at bond-line making it well suited for soft and sensitive substrates such as EIFS
- Rapid cure of thin adhesive layer allows for early movement of substrates
- Economical alternative to cutting out existing failed sealant

**Where to Use:**
- Expansion joint seals (new & remedial construction)
- Window perimeter joint seals
- Roofing Seals
- Fillet beads, coping joints and window seals (custom design)
- EIFS systems renovation
- Metal curtain wall

**Packaging:** 1 - 12 inch wide rolls of 100 - 50 ft.
Sikasil®-728 SL
Single component, self-leveling, ultra low-modulus, highway/parking garage, neutral cure silicone sealant

Advantages:
- Ready to use, single component
- No tooling, less labor
- Ideal for cold climates
- Excellent flexibility for extreme high and low temperature conditions
- Excellent flexibility for dynamic joint movement
- Bonds to most substrates without priming including aged asphalt and concrete
- All season ease of application
- Good contact/adhesion with hard to reach areas
- Excellent for use on runways and tarmacs
- Resistant to road salts and jet fuel

Where to Use:
- Highway joint, Bridges, Stadiums, Parking garages, Plaza decks and Driveways.
- Decks, Expansion joints and Saw cut joints.
- Concrete, steel, glass, aluminum, tile, ceramic, masonry, asphalt, brick, stone and granite

Packaging: 29 oz. cartridges/12 per case, 4.5 gal gal pail; 52 gal gal drum.

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Sikasil®-728 NS
Single component, non-sag, ultra low modulus, highway/parking garage, neutral cure silicone sealant

Advantages:
- Ideal for cold climates
- Excellent flexibility for extreme high and low temperature conditions.
- Excellent flexibility for dynamic joint movement.
- Bonds to most substrates without priming; best performance obtained in horizontal joints when primed.
- Ready to use, labor cost reduction
- Non sag, excellent for vertical joints
- All season ease of application
- Excellent for use on all types of concrete joints
- Resistant to road salts and jet fuel

Where to Use:
- Highway joint, Bridges, Stadiums, Parking garages, Plaza decks and Driveways.
- Decks, Expansion joints and Saw cut joints.
- Concrete, steel, glass, aluminum, ceramic, masonry, brick, stone and granite

Packaging: 29 oz. cartridge/12 per case, 4.5 gal gal pail; 52 gal gal drum.

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Sikasil®-728 RCS
Two-part, self-leveling, rapid cure, ultra low modulus, neutral cure silicone sealant

Advantages:
- No tooling, less labor
- Excellent flexibility for extreme high and low temperature conditions.
- Excellent flexibility for dynamic joint movement.
- Resistant to road salts and jet fuel.
- Bonds to most substrates without priming.
- Open to traffic in one hour.
- All season ease of application.
- Good contact/adhesion with hard to reach areas
- Ideal for cold climates.
- Excellent for use on runways and tarmacs.

Where to Use:
- Horizontal expansion joints
- Highway and bridge joints
- Plaza decks
- Parking decks

Packaging: 40 fl. oz. unit - 2, 20 oz. sausages/20 per case; 9 gal unit – 2 pails each containing 4.5 gal; 104 gal unit - 2 drums each containing 52 gal
Sika® Duoflex® NS
Two-Component, Non Sag, Polysulfide Sealant

Advantages:
- Stays resilient within a wide temperature range.
- Excellent resistance to water, oils, grease, most solvents, mild acids and alkalis.
- Tenacious adhesion to concrete, metal, wood, glass, stone, ceramic and masonry surfaces in any combination, typically without the need for priming.
- Effective under constant immersion or saturated conditions, when suitably primed.

Where to Use:
- Precast concrete panels
- Warehouse floors
- Water treatment & storage facilities
- Bridges and highways
- Secondary containment
- Gas and refueling stations

Packaging: 1.5 gal unit

Sika® Duoflex® SL
Two-Component, Self-Leveling, Polysulfide Sealant

Advantages:
- Stays resilient within a wide temperature range.
- Excellent resistance to water, oils, grease, most solvents, mild acids and alkalis.
- Tenacious adhesion to concrete, metal, wood, glass, stone, ceramic and masonry surfaces in any combination, typically without the need for priming.
- Effective under constant immersion or saturated conditions, when suitably primed.

Where to Use:
- Warehouse floors
- Water treatment & storage facilities
- Bridges and highways
- Secondary containment
- Gas and refueling stations
- Resistant to chlorinated water up to 100ppm

Packaging: 1.5 gal unit
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<tr>
<th>Movement Capability</th>
<th>Silaflex 1a+</th>
<th>Silaflex 1c</th>
<th>SilaHyflex 150 LM</th>
<th>SilaHyflex 300</th>
<th>Silasil 290</th>
<th>Silasil 295 NS</th>
<th>Silasil 728 SL</th>
<th>Silasil 728 RCS</th>
<th>Silasil 728 NS</th>
<th>Silasil 728 GP</th>
<th>Silasil N-Plus</th>
<th>SilaLoadflex 524 EZ</th>
<th>SilaHyflex 407</th>
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*Silaflex 1a+ ONLY  **Contact Sika for approved colors  †UL fire rates 2 hours with Ultra Block  *UL Fire rates 2 hours with mineral wool  **Consult Sika FFI Technical Service before all structural glazing jobs  ***Silasil GP Hi-Temp Red

NOTE: Information subject to change. Always consult product data sheet prior to application. Detailed and up to date technical information and product data sheets can be found at usa.sika.com
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Website: www.usa.sika.com

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