

### Sika Solutions

Sika Canada Inc. offers a comprehensive range of materials to either safeguard or renovate buildings and structures in their entirety:

- ▲ Waterproof roof systems which additionally improve heat loss reductions and even generate energy;
- ▲ Concrete admixtures that improve the behaviour and performance of this vital building material;
- ▲ Coatings, grouts, sealants, plates, resins and mortars to make good and provide protection;
- ▲ Heavy, moderate or light duty and decorative floor systems and finishes.

Sika can supply a single source, completely compatible and proven package of solutions for virtually any need.

### Environmental Commitment

Our company and the Sika Group are also organizations committed to the environment. This is demonstrated by:

- ▲ Membership of the Canadian Green Building Council (CaGBC);
- ▲ Contribution to the green building process and LEED®-Canada certified projects;
- ▲ Production of zero/low-VOC products, recycled materials or those that permit re-use of materials;
- ▲ Production of systems for the water industry to retain water stocks and protect against contamination;
- ▲ Compliance with federal and provincial directives for the reduction of environmentally harmful substances;
- ▲ Manufacture of technologies for alternative energy generation, including solar and wind-power.

Our companies actively participate in worldwide programmes including: Responsible Care; RoofCollect: Vinyl 2010: Reduced CO<sub>2</sub> (Kyoto Protocol), and the Global Nature Fund. We are also engaged in the Sustainable Buildings and Climate Initiative (SBCI) of the United Nations Environment Programme (UNEP).

### Sika Services

Sika Canada Inc. supplements its problem solving products with a high level of support. Dedicated teams provide informed experience, knowledge and assistance. Help is available to clients, consultants and contractors, from design through to completion:

- ▲ Identifying key performance requirements and customizing systems accordingly;
- ▲ Contributing to specification documents and advising on applicator selection;
- ▲ Providing detailed advice on the jobsite to ensure products are correctly installed and perform;
- ▲ Inputting guidance for the maintenance of applied systems to optimize durability.

Sika benefits its partners with technology and presence, which not only address their needs but do so with performance and the environment in mind.

## SIKA SOLUTIONS FOR BUILDINGS AND INFRASTRUCTURE



### Sika: Your local partner... with global expertise

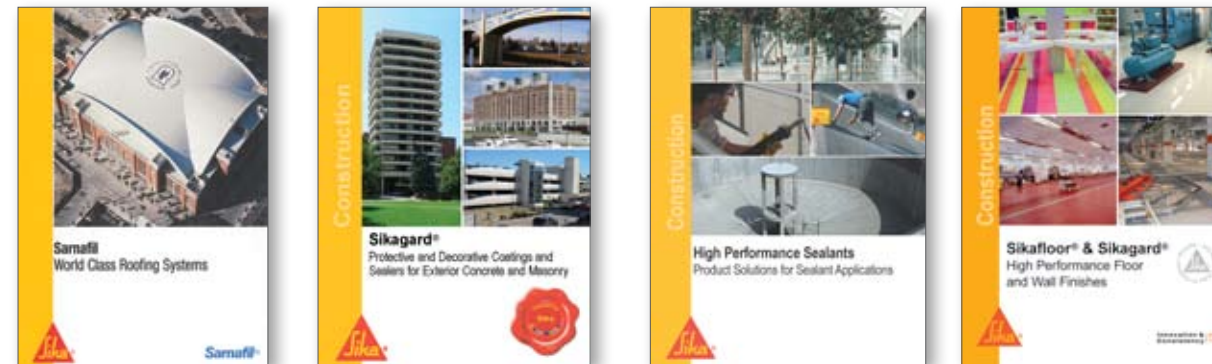
Sika Canada Inc., as a member of the international Sika Group, is a recognised leader in the field of products for the construction industry. We supply what are recognised as standard-setting and value-added systems.

Over the last 100 years, Sika's systems have earned the confidence of construction professionals everywhere thanks to their cost-effective quality, reliability and durability. An essential element in our "roof-to-floor" or "foundations upwards" capability, is our diverse range of materials which provide long-lasting performance and accommodate a wide variety of service conditions, in new-build as well as renovation. Our materials are employed in most sectors of construction, including virtually all forms of buildings, such residential, commercial, industrial, leisure, healthcare and educational structures and, likewise, in many forms of infrastructure, from transportation to utilities.

Furthermore, as part of our environmental policy, considerable attention has been devoted to ensuring that these products are as climate-friendly as possible and contribute to a sustainable future. Accordingly, Sika operates within independently-accredited environmental and quality protocols: our facilities are certified ISO 14001 for their environmental management systems and ISO 9001 for quality processes.

Sika supports its products, together with the built environment, with a century of experience and service, providing a sound platform for successful construction projects.

Also available:



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, within their shelf life. 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 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 or can be accessed in the Internet under [www.sika.ca](http://www.sika.ca).

Sika Canada Inc.

**Quebec**  
601 Delmar Avenue  
Pointe-Claire, QC H9R 4A9  
Tel.: 514-697-2610  
Fax: 514-697-3087

**Ontario**  
6915 Davand Drive  
Mississauga, ON L5T 1L5  
Tel.: 905-795-3177  
Fax: 905-795-3192

**Alberta**  
18131-114th Avenue N.W.  
Edmonton, AB T5S 1T8  
Tel.: 780-486-6111  
Fax: 780-483-1580

**1-800-933-SIKA**  
[www.sika.ca](http://www.sika.ca)

An ISO 9001 certified company  
Pointe-Claire: ISO 14001 certified EMS

BR-GEN-02  
11/10

Construction

Construction



## Sika Solutions For Buildings and Infrastructure





## ● ROOFING

### Potential or Existing Problems:

- Leaking and aged roofing causing water to enter occupied or operational areas below.
- Insufficient resistance to uplift pressures resulting in full or partial 'blow-offs'.
- Lack of fire resistance and resultant spread of flame in the event of roof top conflagrations.

### Sika Solutions:

- Sarnafil®, Sikaplan® and Sikalastic® membranes for assured waterproofing of roofs.
- Sikaplan® mechanically fastened and reinforced membranes for wind resistance.
- Sarnafil® membranes for fire retardant and spread of flame resistant roofing.



## ● CONCRETING

### Potential or Existing Problems:

- Excess mix water resulting in reduced density, strengths and resistance to shrinkage cracking.
- Restricted workability and placing causing honeycombing and surface defects.
- Durability compromised by freeze-thaw damage and environmental conditions.

### Sika Solutions:

- Sikament® and Plastocrete® water reducing admixtures for increased performance.
- Sika® Viscocrete® technology for self-consolidating and enhanced concrete.
- Sika® Multi-Air and Sikacrete® admixtures for improved resistance and life-span.



## ● WATER MANAGEMENT

### Potential or Existing Problems:

- Loss of clean water from reservoirs and tanks resulting in shortages.
- Ground water contamination occurring as a result of leakage of untreated water.
- The effects of constant or temporary immersion of construction materials in water.

### Sika Solutions:

- SikaTop® PLUS potable water contact approved mortars for lasting repair.
- SikaSwell®, Sikadur® Combiflex SG and SikaFix® waterstops, sealants and crack sealers.
- Sikagard® wall and floor coatings for overall protection against clean or dirty water.



## ● STRUCTURAL GROUTING

### Potential or Existing Problems:

- Inadequate support of columns, bearing plates, safety barriers and hand-rails.
- Deterioration of existing bolts and fixings owing to impact, vibration and exposure.
- Prospective damage to post-tensioning strands due to inadequate corrosion protection.

### Sika Solutions:

- SikaGrout® structural grouting of building components, annuli and rails.
- Sikadur® grouts for high load, chemically and mechanically resistant conditions.
- SikaGrout® for post tensioning ducts, providing long term defense against corrosion.



## ● JOINT SEALING

### Potential or Existing Problems:

- Water seepage through movement joints into occupied or operational rooms.
- Damage to joints as a result of trafficking, impact and de-icing salt attack.
- Dampness and deterioration due to rain penetration through façade and glazing joints.

### Sika Solutions:

- Sikaflex® and Sikasil® range of high performance, elastomeric sealants for joints.
- Sikadur® heavy duty mortars for the repair of joint walls and nosings.
- Sikaflex® and Sikasil® range of proven sealants for façades, fenestration, structural glazing.

Sika Canada Inc. is internationally recognized for its experience in developing and supplying product systems for the built environment.

Whether it is an occupied structure, such as a high rise condominium, school, hospital or sports stadium, or one that serves our need for transportation, such as a bridge, tunnel, rail track or ports, or provides essential utilities, such as a reservoir, dam, water treatment works or power turbine, Sika has materials that will serve to enhance performance or extend lifespan.

This brochure illustrates how Sika Canada Inc. can assist from 'roof-to-floor' in the case of buildings and 'foundations upwards' where infrastructure is concerned. Our experience as a company, dating back 50 years, and as part of a global group, first founded in 1910, enables us to identify both potential challenges facing new construction or existing problems that have to be solved in renovation.

We work to address the needs of buildings and infrastructure, to create a durable built environment while safeguarding the natural one.



## ● CORROSION MANAGEMENT

### Potential or Existing Problems:

- Rusting of steelwork and subsequent need for repeated replacement.
- Chloride contamination causing deterioration and loss of structural integrity.
- Reduced protection to steel reinforcement due to aggressive environments.

### Sika Solutions:

- Sika® CNI and FerroGard® 901 corrosion inhibiting admixtures for fresh concrete.
- Sika® Galvashield® anodes for service life extension of new or existing concrete.
- Sika® FerroGard® 903 applied inhibitor for the reduction of ongoing corrosion.



## ● CONCRETE RENOVATION

### Potential or Existing Problems:

- Spalling of concrete and loss of integrity due to pollution and weathering.
- Impact damage to concrete as a result of vehicular collisions with structures.
- Deterioration and loss of concrete surfaces due to corrosion and exposure.

### Sika Solutions:

- Sika® MonoTop® and SikaTop® PLUS restoration systems for structures.
- Sikadur® mortars and injection resins for trafficked and cracked concrete.
- Sikagard® coatings for enhancement and protection of concrete components.



## ● STRUCTURAL STRENGTHENING

### Potential or Existing Problems:

- Change of building use or increased loading on existing structural components.
- Insufficient design and/or construction errors in quantity of reinforcement.
- Damaged structures due to corrosion, fire, explosion, impact or ageing.

### Sika Solutions:

- Sika® Carbodur® (CFRP) plates for strengthening concrete, steel and masonry.
- Sika® Carbodur® Rods and SikaWrap® FibrAnchors™ for reinforcing.
- SikaWrap® Hex fabric systems for strength improvement and impact resistance.



## ● ANCHORING

### Potential or Existing Problems:

- Need to secure building components, including panels, masonry and steel.
- Corrosion of mechanical fixings resulting in damage.
- Failure of bolts, dowels, pins and fasteners causing loss of integrity.

### Sika Solutions:

- Sika® Anchorfix® anchoring gels for bonding construction materials.
- Sikadur® low viscosity grouts to encapsulate and protect ferrous fixings.
- Sika® Anchorfix® and Sikadur® resins for securing bars, dowels and bolts.



## ● FLOORING

### Potential or Existing Problems:

- Cracked and broken floors causing risk of injury or disruption to operations.
- Uneven sub-floors resulting in unsatisfactory resin, sheet, tile or carpet finishes.
- Wood floors requiring acoustical control and long-lasting adhesion.

### Sika Solutions:

- Sikafloor® toppings and finishes for durable performance and safety.
- Sika® Level and Sikafloor® Level screeds for achieving flat and even substrates.
- SikaBond® sound damping and adhesives for optimum wood floor performance.

