

### 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: YOUR LOCAL PARTNER... WITH GLOBAL EXPERTISE



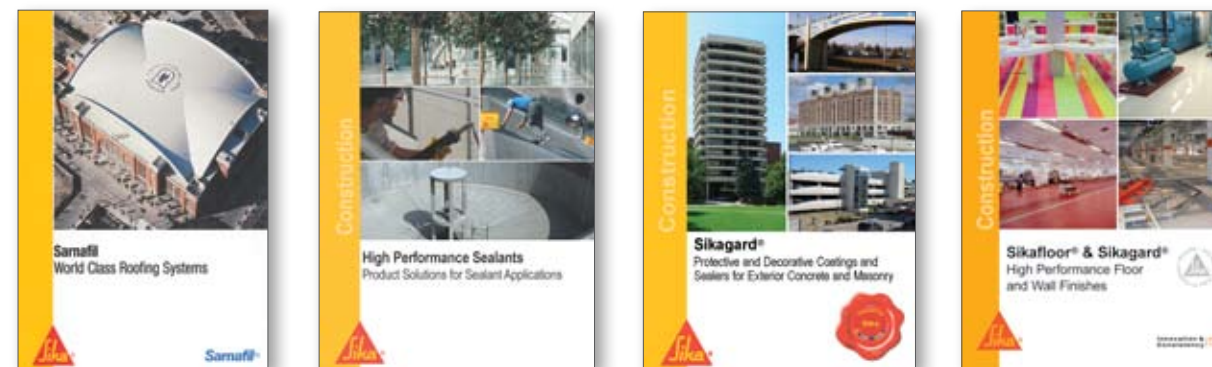
Sika Canada Inc., as a member of the international Sika Group, is a recognised leader in the field of specialty products for the construction industry. We offer standard-setting and value-added systems for roofing, concrete improvement, grouting, structural strengthening, joint sealing, concrete restoration, moisture protection, flooring and wall finishes.

In fact, 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 "foundations upwards" or "roof-to-floor" product offering, is our diverse range of materials which provide long-lasting solutions with the necessary properties to accommodate a wide variety of service conditions, in new-build as well as renovations. Our products are employed in most sectors of construction, including transportation and infrastructure, residential, commercial, leisure, healthcare and, of course, industries of all kinds.

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. Sika is an ISO 9001 certified company and its Pointe-Claire facility has received the ISO 14001 certification for its environmental management systems.

With Sika products, the construction industry and the built environment can count on a century of experience and the highest level of service to provide a sound foundation for partnership and 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).

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

Construction

Construction



## Sika Solutions For Industrial Construction and Maintenance



Innovation & Consistency | since 1910

BR-GEN-01

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### • Roofing

#### Problems:

- Weathered and leaking roofing causing water ingress into operational areas below.
- Insufficient resistance to uplift pressures resulting in full or partial 'blow-offs'.
- Lack of fire resistance and resultant spread of flame with roof top conflagrations.

#### 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

#### Problems:

- Excess water resulting in reduced density and strengths and shrinkage cracking.
- Limited workability and placing causing honeycombing and significant defects.
- Durability compromised by freeze/thaw damage and contact with chemicals.

#### Solutions:

- Sikament® and Sika® 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.

### • Chemical Containment

#### Problems:

- Leakage of effluents from treatment plants or storage vessels.
- Chemical attack upon precautionary facilities, including bund areas, causing deterioration.
- Land or ground water contamination occurring as a result of failed containment.

#### Solutions:

- Sikadur®, SikaTop® PLUS and Sika® MonoTop® mortars for effective repair.
- Sikadur-Combiflex® SG and Sikaflex® sealing systems for exposed joints and cracks.
- Sikagard® wall and floor coatings for overall resistance to chemical exposure.

### • Grouting

#### Problems:

- Inadequate structural support of column, machine and bearing plates.
- Deterioration of existing bolts and fixings owing to heavy impact, vibration and exposure.
- Loss of precision seating resulting in damage to power and conveyance equipment.

#### Solutions:

- SikaGrout® for structural grouting of building components and static machinery.
- Sikaflex® sealants for elastomeric sealing around bolts and fixings subject to movement.
- Sikadur® grouts for precision setting of vibrating and reciprocating equipment.

### • Joint Sealing

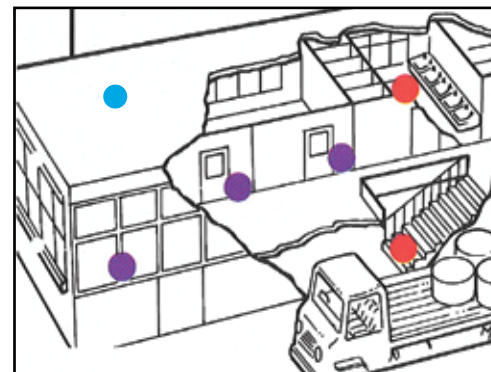
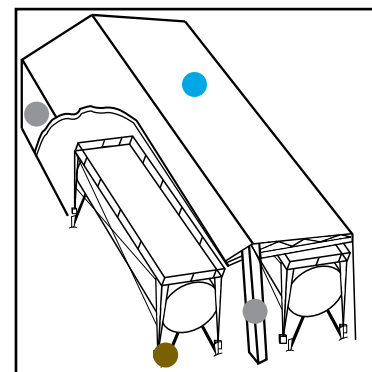
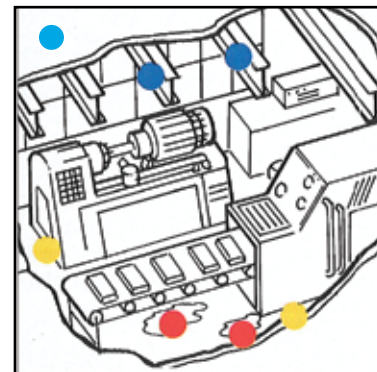
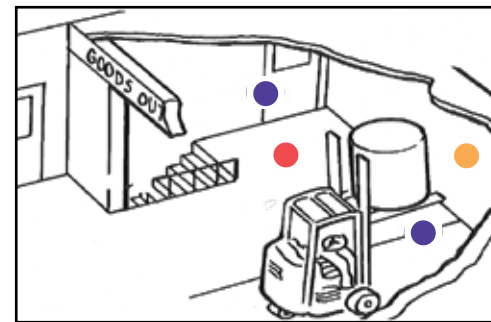
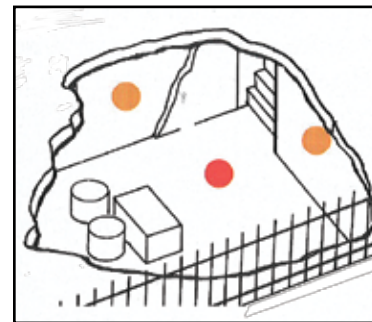
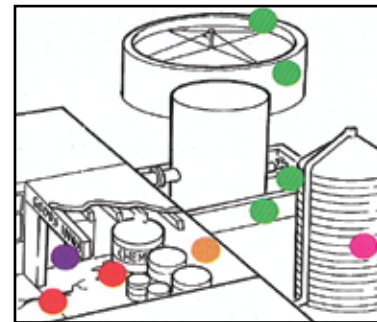
#### Problems:

- Water and chemical seepage through floor joints into foundation or rooms below.
- Damage to joints as a result of trafficking, impact and chemical attack.
- Dampness and deterioration due to rain penetration through window and façade joints.

#### Solutions:

- Sikaflex® range of high performance, pourable sealants for horizontal joints.
- Sikadur® heavy duty mortars for the repair of joint walls and nosings.
- Sikaflex® range of proven gun-grade sealants for fenestration and expansion joints.

Sika Canada Inc. has acquired a wealth of knowledge and experience in the building and renovation of industrial structures and facilities over the last 50 years. This brochure illustrates a selection of potential or existing problems that may occur in industrial environments and that should be addressed at the design stage of a new construction or repair project. For these problematic situations, Sika offers a wide range of solutions, from 'roof to floor' or from 'foundations upwards'.



### • Corrosion Management

#### Problems:

- Corrosion of reinforcement and subsequent damage of concrete structures.
- Chloride contamination of rebar steel resulting in loss of section and structural integrity.
- Protection to encased reinforcement reduced by aggressive environments.

#### Solutions:

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

### • Concrete Repair and Protection

#### Problems:

- Spalling of concrete and loss of integrity due to rusting, pollution and weathering.
- Impact damage to concrete by fork lifts, trolleys, and loaded vehicles.
- Deterioration and loss of concrete surfaces due to aggressive chemicals.

#### Solutions:

- SikaTop® PLUS and Sika® MonoTop® repair systems for facades, sills and lintels.
- Sikadur® mortars and injection resins for mechanically exposed concrete.
- Sikagard® protective coatings for building envelopes and chemical environments.

### • Structural Strengthening

#### Problems:

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

#### Solutions:

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

### • Anchoring

#### Problems:

- Need to secure building components, plant or machinery.
- Corrosion of mechanical fixings resulting in potential for damage.
- Failure of bolts, dowels, pins and fasteners causing loss of integrity.

#### Solutions:

- Sika® Anchorfix® anchoring gels for bonding construction material.
- Sikadur® low viscosity grouts to encapsulate and protect ferrous fixings.
- Sika® Anchorfix® and Sikadur® high strength resins for ensured anchoring.

### • Flooring

#### Problems:

- Worn, cracked and broken floors causing production problems and risk of injury.
- Chemical attack through spillage and wet processes causing slipperiness.
- Contamination and difficult cleaning due to porosity and surface texture.

#### Solutions:

- Sikadur® mortars for resistant and durable repair of substrates.
- Sika® Loadflex® sealants for cracks and load bearing control joints.
- Sikafloor® coatings, self-levelling toppings and screeds for lasting protection.

