Sika Systems and Solutions for Concrete Balcony Structures


**Sika Solutions for Concrete Balcony Structures**

**Project-Related Needs and Functions of Balcony Flooring**

- Mechanical resistance is related to exposure generated by pedestrians and light wheeled transport as well as by wear from typical patio furniture.
- Slip resistance is always a question of surface design. The specific environment defines the limits.
- Crack-bridging ability means the coating system has enough elasticity to seal against cracking.
- Thermal shock resistance means the coating system will not be negatively influenced by thermal exposure like ice, hail or warming up by sunshine.
- UV resistance and resistance to yellowing have to be fulfilled by all flooring systems for outside use.

**Resin Anchoring**

- **Sika® AnchorFix®**
  - Injectable, high strength, non-sag resins for chemical anchoring. Available in regular or fast set for normal or cold weather applications.

**Corrosion Mitigation**

- **Sika FerroGard®**
  - Corrosion inhibiting concrete and mortar admixture and surface-applied penetrative corrosion inhibitor.
- **Sika® Galvashield**
  - Embedded galvanic anodes for corrosion prevention and control in reinforced concrete structures.

**Concrete Repair**

- **SikaTop®/SikaRepair®**
  - Hand-applied or wet spray-applied high performance repair mortars available in general purpose, non-sag and self-levelling consistencies.
- **SikaQuick 1000/2500**
  - Quick-setting, high strength, universal repair mortars that can support traffic in 1 hour and are overcoatable in 4 to 6 hours.
- **Sikacrete®-08 SCC**
  - High-quality, durable, self-compacting concrete in a bag utilizing Sika’s patented ViscoCrete® technology.
Sika Leading Edge Technology

Sikacrete® - ViscoCrete® Technology
For high quality, cutting edge, durable, self-compacting concrete-in-a-bag.

Sika FerroGard® Technology
Admixture and surface-applied corrosion inhibitors used to delay the onset of corrosion and to reduce the rate of any eventual corrosion.

Sika® Galvashield® Technology
Embedded galvanic anodes used to control on-going corrosion and to prevent the initiation of new corrosion activity in concrete structures.

Sika® EpoCem® Technology
Epoxy-cement moisture barriers and reprofiling mortars that allow the application of Sikafloor® and Sikagard® coating systems on green or damp concrete.

Sika® CarboDur®/SikaWrap Technology
Sika® CarboDur® and SikaWrap composite strengthening systems are non-corroding, lightweight, easy-to-apply, high strength and ultra-thin.

Concrete Protection

Sikagard® 550W Elastocolor
One-component, water based, crack bridging, elastomeric, decorative and protective coating with elastic base coat for concrete and masonry structures. Excellent resistance to carbon dioxide and to chlorides.

Sikagard® 670W/Color A50
One-component, protective and decorative water based or solvent containing coatings for concrete and masonry. Carbonation, chloride and weather resistant, in addition to being available as smooth or textured finishes.

Sikagard® SN40/SN100
One-component, clear, breathable, water repellent, penetrating sealers used to protect concrete from chlorides.

Balcony Flooring

Sikalastic® 180/181CA
Elastomeric, crack bridging, polyurethane based, UV resistant, balcony waterproofing system available in smooth or textured finish.

SikaTop® Seal 107CA
Two-component, polymer modified, flexible, cementitious, water-proofing coating for concrete structures. High resistance to carbon dioxide and chlorides. Suitable for use in areas receiving foot traffic.

SikaWrap
Carbon fibre (CFRP) and/or E-glass fibre (GFRP) system reinforced polymer for structural strengthening of concrete.

Structural Strengthening

Sikadur®
Two-component, solvent-free, multi-purpose, epoxy resins for crack injection, structural bonding, sealing and strengthening applications.

Sika® CarboDur®
Pultruded, carbon fibre reinforced polymer (CFRP) laminate strip designed for strengthening concrete, timber and masonry structures.

Joint Sealing

Sikaflex®

Sikaflex® AT-Connection
Moisture-curing elastic sealant based on hybrid polyurethane technology. Ideal for connection and perimeter joints between porous and non porous substrates, specifically PVC and vinyl profiles.
### Product type and use

<table>
<thead>
<tr>
<th>Product name</th>
<th>Description</th>
<th>Advantages</th>
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<tbody>
<tr>
<td><strong>Anchoring</strong></td>
<td>Setting anchors or rebar into existing concrete</td>
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<tr>
<td>Sikadur® 30/31/32 Hi-Mod/35 Hi-Mod LV/52 Heavy duty, CFRP strengthening system</td>
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<tr>
<td>Sika® Galveshield XP or XP+ Embedded galvanic anodes for corrosion prevention and control</td>
<td>Proven technology, focused protection, economical, long lasting.</td>
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<td><strong>Concrete Protection</strong></td>
<td>Protective sealers and coatings to prevent water/chloride ingress</td>
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<tr>
<td>Sikagard® SN40/SN100 Silane sealers</td>
<td>Deep penetration for long lasting protection from weathering.</td>
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<td>Sikagard® 670W Water-based and solvent-containing pigmented acrylic coatings</td>
<td>Excellent weathering and corrosion resistant properties.</td>
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<td>Sika® AnchorFix® 2CA/3CA Penetrates the most dense concrete.</td>
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<td><strong>Concrete Repair</strong></td>
<td>Shallow repairs &lt; 38 mm in depth, horizontal or vertical</td>
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<tr>
<td>Sikatop® 111/122/123 PLUS Polymer-modified, cementitious screed or non-sag mortars, plus migrating corrosion inhibitor</td>
<td>High bond strengths ensure superior adhesion.</td>
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<tr>
<td>Sikarepair® 222/223 + Latex R Early strength-gaining, cementitious patching mortars</td>
<td>High early strength, easy to use.</td>
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<td>Sikacure®-08 SCC Self-compacting high quality concrete (SCC) in a bag, based on Sikacure® technology</td>
<td>Simple to use, labour-saving system.</td>
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<td><strong>Balcony Flooring</strong></td>
<td>Balcony waterproofing membranes and coatings</td>
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<td>Sikalastic® 180/181A Elastic, polyurethane based, UV resistant, balcony waterproofing membrane</td>
<td>Applied in 2- or 3-step process for rapid turn around.</td>
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<td>Sikatop® Seal 107A Flexible, waterproofing and protective slurry coating</td>
<td>Protects against water penetration, yet water vapour permeable.</td>
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<td><strong>Concrete Mitigation</strong></td>
<td>Corrosion protection for embedded steel reinforcement</td>
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<td>Sikagard® 901 Corrosion inhibiting admixture and impregnation for reinforced concrete</td>
<td>Penetrates the most dense concrete.</td>
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<td>Corrosion protection for embedded steel reinforcement</td>
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<tr>
<td>Sikagard® 903 Corrosion inhibiting admixture and impregnation for reinforced concrete</td>
<td>Enhances the corrosion protection of repairs and durability of reinforced concrete.</td>
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<td>Sikawrap® E-Glass &amp; Carbon Fibre Glass fibre and carbon fibre fabrics for structural strengthening</td>
<td>Flexible, can be wrapped around complex shapes.</td>
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<td><strong>Concrete Strengthening</strong></td>
<td>Composite materials for structural strengthening/reinforcing</td>
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<td>Sikadur® 20/31/32 Hi-Mod/35 Hi-Mod LV/52 High modulus, high strength structural epoxy adhesives and crack injection resins.</td>
<td>Excellent adhesion to concrete, masonry, metals, wood and most structural materials.</td>
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<td>Sika® Carbodur® Heavy duty, CFRP strengthening system</td>
<td>Very high strength, light weight, corrosion resistant.</td>
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<td>Sikaflex® AT - Connection Universal construction sealant, especially suitable for PVC and vinyl perimeter or connection joints.</td>
<td>Excellent adhesion on porous and non porous substrates, including PVC and vinyl.</td>
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<td><strong>Composite Materials</strong></td>
<td>Structural high performance materials</td>
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### Other Sika brochures:

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 Technical 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.

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