Sika Solutions for Building Facades and Balconies

- High Durability Concrete
- Facade Joint Sealing/Waterproofing
- Balcony Coating/Waterproofing
- Concrete Repair
- Concrete Protection/Waterproofing
- Structural Strengthening

Technical and computer-generated specification components are available immediately via fax or email. Call your Sika Tech center at 1-800-933-SIKA.

Sika’s Concrete Restoration Systems (CRS) consists of specifications and diagrams for a comprehensive approach to concrete repair and protection.

ISO 9000:2000
High Durability Concrete

Requirements:
Excellent long-term resistance to freeze/thaw cycling and cracking. Low permeability to resist steel corrosion from carbonation (pH loss) or chlorides/salts. Excellent pumpability and flow characteristics.

Sika Solution:
- **Sikament**: high range water reducers (superplasticizers)
- **SikaPump**: pumping and consolidation aid
- **Sika AER**: air-entraining admixtures for freeze/thaw resistance
- **Sika FerroGard 901**: corrosion inhibiting admixture

Facade Joint Sealing/Waterproofing

Requirements:
Watertight expansion joints able to withstand excessive joint movements in facade elements without failure. High performance adhesion on most substrates without a primer. Sealant must be paintable, must not stain the substrate, and must be available in a variety of colors.

Sika Solution:
- **Sikaflex 15LM**: high performance, 1-part polyurethane sealant with extreme movement capabilities (+100/-50%)
- **Sikaflex 1A**: high performance, sealant with good movement capabilities (+/-25%)
- **Sikaflex 2c**: high performance, 2-part polyurethane sealant (available in self-leveling and non-sag grade), also available in over 50 standard colors.

Balcony Coating/Waterproofing

Requirements:
Watertight balcony surfaces that are resistant to deicing salts or other chloride sources, carbonation (pH loss), and all sources of water. Good abrasion and slip resistance.

Sika Solution:
- **Sikadur Balcony System**: epoxy resin-based, water impermeable protective overlay system. Also provides a comfortable, slip resistant surface.
- **SikaColor Balcony System**: acrylic, high build, waterproof, textured, decorative coating.
- **Sikagard 701W**: penetrating sealer/water and chloride repellent

Concrete Protection/Waterproofing

Requirements:
Corrosion protection to areas outside patch repairs against carbonation, chlorides, and water infiltration.

Sika Solution:
- **Sikagard 550W/670W**: anti-carbonation coatings, protective coatings in various colors; crack-bridging or rigid coatings available
- **Sika FerroGard 903**: surface applied corrosion inhibiting impregnation to protect surrounding areas from latent corrosion damage
- **Sikagard 701W**: penetrating sealer/water and chloride repellent

Concrete Repair

Requirements:
Spall/patch repairs with excellent adhesion. Protection to exposed reinforcing steel. Level rough surfaces and fill bugholes prior to coating. Repair cracks as required.

Sika Solution:
- **Sika Armatec 110**: anti-corrosion coating/bonding agent
- **SikaTop Plus**: repair mortars, polymer-modified repair mortar with corrosion inhibitor
- **Sikadur injection resins**: epoxy resins for repair of structural cracks

Structural Strengthening

Requirements:
Flexural and shear strengthening systems to reinforce structurally deficient beams, floor slabs, columns, girders, etc. Must be easy to install with little disruption to the building.

Sika Solution:
- **Sika CarboDur strips**: carbon fiber strips for tensile/flexural strengthening
- **SikaWrap fabrics**: carbon, glass, or hybrid fabrics for shear strengthening and column wrapping
- **Sikadur structural adhesives**: structural, moisture-tolerant epoxy resins for bonding composites to concrete members