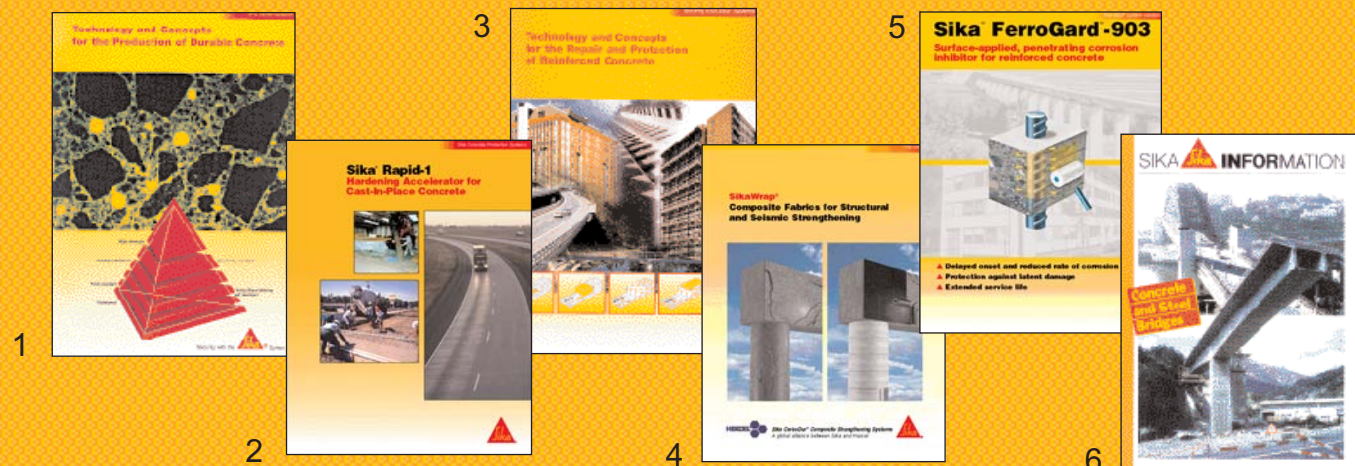


Also available from Sika for Bridges and Highways



1-Technology and Concepts for the Production of Durable Concrete, 2-Sika Rapid-1, 3-Technology and Concepts for Repair and Protection, 4-SikaWrap and CarboDur composites, 5-Sika FerroGard 903 corrosion inhibitor, 6-Sika Information Concrete and Steel Bridges

CONCRETE RESTORATION SYSTEMS

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

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

Bridges and Highways

Sika Solutions For Concrete Construction, Repair And Protection.



-High Performance Concrete



-"Fast Track" Road Repairs



-Bridge Deck Overlays



-Crack Repair/Deck Sealing



-Concrete Repair and Protection



-Structural Strengthening



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Regional Headquarters and Sales Centers
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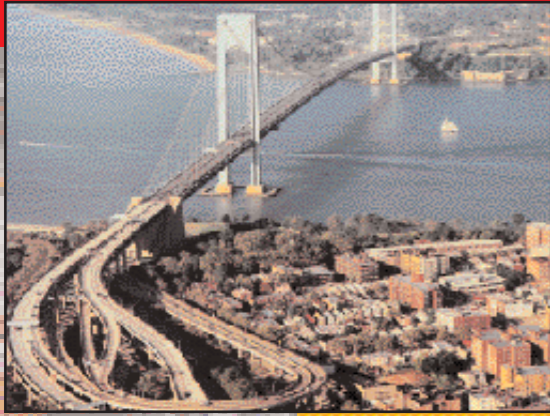
SIKA...A SYMBOL OF STRENGTH SINCE 1910

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Sika Solutions For Concrete Bridges and Highways.

High Performance Concrete



- Requirements:
High strengths and excellent long-term durability with resistance to freeze/thaw cycling, cracking, and steel corrosion due to deicing salts (chlorides) or carbonation (pH loss).
- Sika Solution:
- ▲ Sikament...high range water reducers (superplasticizers)
 - ▲ Sikacrete...silica fume admixtures for low permeability
 - ▲ Sika AER...air-entraining admixtures for freeze/thaw resistance
 - ▲ Sika FerroGard 901...corrosion inhibiting admixture

"Fast-Track" Road Repairs



- Requirements:
High early strength concrete (3000 psi) able to withstand highway traffic 4 to 6 hours after placement. Excellent durability and workability for easy placement without loss of slump.
- Sika Solution:
- ▲ Sika Rapid-1...hardening accelerator for high early strength development
 - ▲ Sikament...high range water reducers (superplasticizers)
 - ▲ Sikadur dowel bar adhesives...structural epoxies for anchoring dowels in transverse joints
 - ▲ SikaSet Roadway Patch...fast-set mortar for pothole repairs

Bridge Deck Overlays



- Requirements:
Thin, durable concrete or polymer concrete overlays to protect the deck from water and chloride infiltration. Provide an abrasion resistant riding surface with excellent skid resistance.
- Sika Solution:
- ▲ Sikadur LoMod epoxies...for polymer concrete overlays and joint nosings
 - ▲ Sikacrete...silica fume admixtures for low permeability concrete overlays
 - ▲ SikaLatex...high performance SBR admixture for latex-modified concrete overlays

Crack Repair/Deck Sealing



- Requirements:
Structural repair of cracks and/or sealing out water, chlorides, and carbon dioxide. Improved structural integrity and protection against corrosion of reinforcing steel.
- Sika Solution:
- ▲ Sikadur 55 SLV...epoxy sealer/healer penetrates and seals cracks in bridge decks (i.e. shrinkage cracks)
 - ▲ SikaPronto 19...methacrylate sealer/healer with fast tack-free time available
 - ▲ Sikadur injection resins...structural epoxies for high strength bonding of cracks by pressure injection

Concrete Repair and Protection



- Requirements:
Localized concrete repairs with excellent adhesion. Corrosion protection for exposed reinforcing steel. Protection for unrepaired areas against future damage due to chloride or carbonation-induced corrosion.
- Sika Solution:
- ▲ Sika Armatec 110...anti-corrosion coating/bonding agent
 - ▲ SikaTop Plus repair mortars...polymer-modified mortars with corrosion inhibitor
 - ▲ Sikacem/SikaRepair mortars...spray applied mortars for large scale repairs
 - ▲ Sika FerroGard 903...surface applied, penetrating corrosion inhibitor. Sikagard coatings...anti-carbonation coatings and chloride barriers.

Structural Strengthening



- Requirements:
Flexural and shear strengthening systems to reinforce structurally deficient beams, slabs, columns, girders, etc. Easy to install and corrosion resistant in harsh environments. Fast application to reduce traffic closures.
- 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...moisture-tolerant epoxy resins for bonding composites to concrete members.