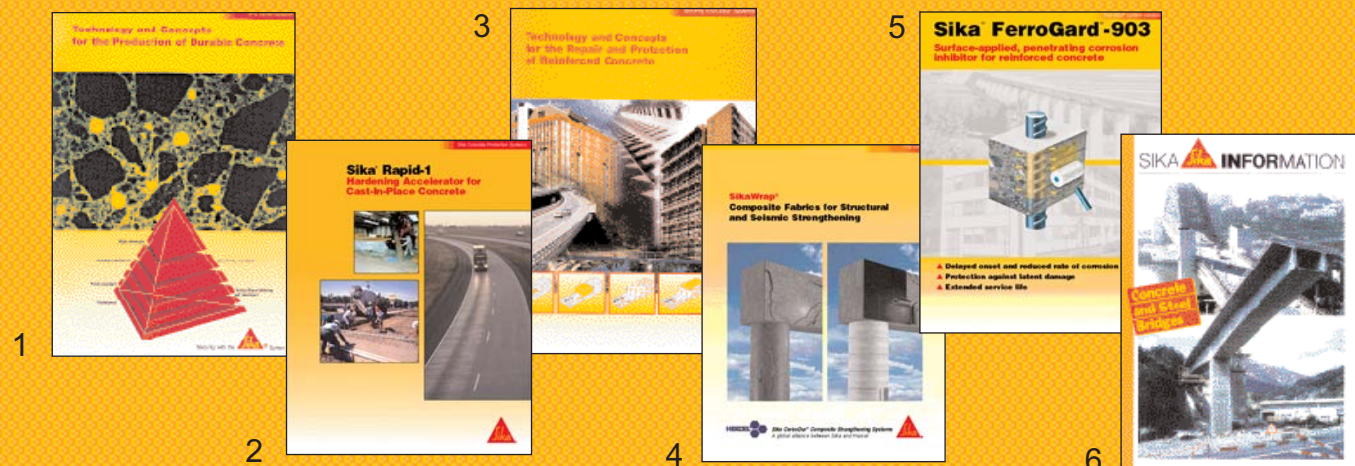


Also available from Sika for Bridges and Highways



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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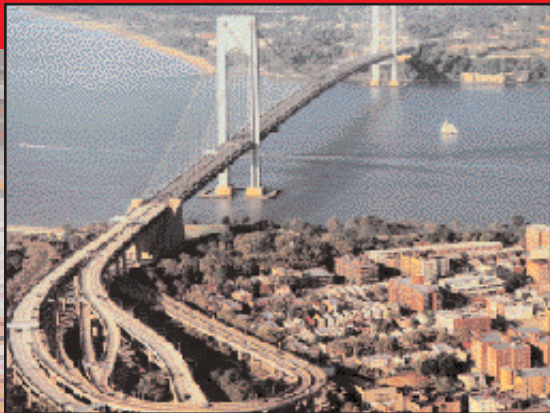
SIKA...A SYMBOL OF STRENGTH SINCE 1910

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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.