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

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

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

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

For the location of your nearest Sika sales office, contact your regional center.

Sika Corporation (USA) 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 201-933-8600 Fax: 201-933-4225

Sika Mexicana S.A. de C.V. Carretera Libre Colaya Km. 8.5 Corregidora, Queretaro C.P. 76920 A.P. 136 Phone: 52 42 25 0122 Fax: 52 42 25 0537

Sika Canada, Inc. 601 Delmar Avenue Pointe Claire, Quebec H9R4A9 Phone: 514-697-2610 Fax: 514-694-2792

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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).
- Sikament... high range water reducers (superplasticizers)
- Sikacrete... silica fume admixtures for low permeability
- Sikadur AER... air-entraining admixtures for freeze/thaw resistance
- Sika FerroGard 901... corrosion inhibiting admixture

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- 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.
- 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
- Sika injection resins... structural epoxies for high strength bonding of cracks by pressure injection

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
- Sika injection resins... structural epoxies for high strength bonding of cracks by pressure injection

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.
- Sikament... high range water reducers (superplasticizers)
- Sikadur AER... air-entraining admixtures for freeze/thaw resistance
- Sika FerroGard 901... corrosion inhibiting admixture

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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.
- Sikament... high range water reducers (superplasticizers)
- Sikadur AER... air-entraining admixtures for freeze/thaw resistance
- Sika injection resins... structural epoxies for high strength bonding of cracks by pressure injection

Sika Solution:
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- Sikadur AER... air-entraining admixtures for freeze/thaw resistance
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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.
- 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

Sika Solution:
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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 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

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