WATERPROOFING
BRIDGE DECK PROTECTION

SIKA ADVANCED SOLUTION FOR EXCELLENT DURABILITY, FAST APPLICATION AND LIGHT LOAD
PROVEN BRIDGE DECK PROTECTION
With Sika new high performance technology

PROTECTION OVERVIEW
To increase the durability of concrete bridges, all concrete movement and construction joints plus especially the bridge decks have to be waterproofed to prevent serious damage to the concrete or to the embedded steel reinforcement. Due to dynamic loading, the bridge decks must be protected with elastic crack-bridging systems which are able to accommodate every movement and keep the performance of bridge deck protection. The whole system shall be able to withstand the traffic load under the climatic conditions which the bridge structure is exposed to, in addition provide a good bond to the asphalt overlay.

REQUIREMENTS
- Elastic crack-bridging properties under a wide range of temperatures.
- Resistance to chlorides and aggressive chemicals such as fuel, oils and hydraulic fluids.
- Easy and safe to install under different weather conditions and suitable for different substrate conditions.
- Fast application to reduce down time.

SIKA SOLUTIONS
New technology with Sikalastic® protection membrane (e.g. Sikalastic®-821 LV / Sikalastic®-841 ST)
- Liquid applied membrane based on Polyurethane or Polyurea
- NEW innovative pellets-system for high bond and shear strength
- Fast application / fast curing
- Short down time

SIKA'S ADVANCED SYSTEM
- Light-weight system
- Customized solution with Sika expert competence
- For concrete decks in new construction and for refurbishment
- System build-up with different protection and bonding solutions
- ZTV-BEL/B/ ETAG 033 and BBA HAPAS certified
- Improved adhesion / improved life cycle costs
- Global technical support

SIKA PROTECTION SOLUTIONS FOR CONCRETE BRIDGE DECK
SIKA PROTECTION SOLUTIONS FOR STEEL BRIDGE DECK

1. Wearing course: hot mixed asphalt / asphalt concrete (+140–180°C)
2. Base course: mastic asphalt (+240°C), or hot mixed asphalt / asphalt concrete (+140–180°C)
3. Tack-coat: Epoxy-/PU-based + Sikalastic®-827 LT/HT
4. Waterproofing layer: Sikalastic®-841 ST / 821 LV
5. Primer: Epoxy-based + broadcasted (QS 0.4–0.7 mm)
6. Concrete deck

1. Wearing course: Hot mixed asphalt / asphalt concrete (+140–180°C)
2. Base course: mastic asphalt (+240°C), or hot mixed asphalt / asphalt concrete (+140–180°C)
3. Sikalastic®-827 LT/HT pellets broadcast
4. Primer: 2-comp-epoxy SikaCor® HM Primer
5. Steel deck > 12 mm

1. Wearing course: Hot mixed asphalt / asphalt concrete (+140–180°C)
2. Base course: mastic asphalt (+240°C), or hot mixed asphalt / asphalt concrete (+140–180°C)
3. Sikalastic®-827 LT/HT pellets broadcast
4. Primer: 2-comp-epoxy Sikafloor® HM Primer
5. Steel deck > 12 mm
SIKA FULL RANGE SOLUTIONS FOR CONSTRUCTION:

WATERPROOFING  CONCRETE  REFURBISHMENT
SEALING AND BONDING  FLOORING  ROOFING

FOR SIKA GCC INFORMATION:

gcc.sika.com

WHO WE ARE
Sika AG, Switzerland, is a globally active specialty chemicals company. Sika supplies the building and construction industry as well as manufacturing industries (automotive, bus, truck, rail, solar and wind power plants, façades). Sika is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting loadbearing structures. Sika’s product lines feature high quality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.

Our most current General Sales Conditions shall apply. Please consult the Data Sheet prior to any use and processing.