

Construction



Sika[®] Concepts for the Repair and Protection of Concrete

Sika[®]

Proven Concepts Technology and Market Leadership

Quality and Durability in Concrete Repair and Protection

Successful repair and protection of damaged or deteriorated concrete structures requires professional assessment, design, management and execution of a technically correct concept – all in accordance with the highest quality standards.

Sika has been at the forefront of concrete repair and protection technology since the 1920s. Sika pioneered the development of concrete repair products and systems from the early beginnings, with Sika Waterproof mortars in the 1920s and 30s, through our development of epoxy and polymer latex modified repair mortars in the 1950s and 60s. In the 1970s Sika introduced the first "Complete Concrete Repair and Protection System" with Sika reinforcement primers, bonding bridges, repair mortars and levelling mortars plus protective impregnations and coatings. In the 1980s the systems were further simplified and optimized, through our philosophy of continuous improvement.

The introduction of **Sika® FerroGard®-903**, an impregnating corrosion inhibitor to protect against latent damage, as an integral part of our systems in the 1990s, was an additional demonstration of our commitment to continuous innovation in both technical and market leadership. The introduction of our "state of the art" **Sika® ViscoCrete®**, ultrahigh range water-reducing plasticizer and SCC technology, into our cementitious products is now the latest development.

The Key Stages in a successful Repair Project are

- Survey and assessment of the structure
- Diagnosis of the "root cause" of deterioration
- Determination of the repair and protection objectives
- Selection of the appropriate repair and protection strategy
- Definition of the future maintenance requirements and procedures



Over 80 Years Experience

Customer Requirements and Benefits

■ Economy	Cost optimized systems matching the project's specific requirements
■ Security	Large number of reference projects worldwide
■ Speed	Systems allowing resumption of activities within only hours or days
■ Environmental aspects	Solvent-free systems
■ Architectural and aesthetics	Decorative and colour to the client's design
■ Durability and extension of the service life	Products to reduce and prevent corrosion
■ Repair with minimal disruption	Repairs to roads and bridges under dynamic load
■ Tested and approved	Systems in accordance with EN 104 and National Standards
■ Single source	Global technical support and practical training with the complete Sika Systems



Building Construction

- Residential
- Commercial and office
- Industrial and manufacturing
- Health, education and leisure facilities

Sika Systems

- Corrosion protection, repair and protection repair mortars: **SikaQuick®**, **SikaTop®**, **Sika® MonoTop®** ranges
- Coatings and impregnations: **Sikagard®** range
- Waterproofing membrane: **Sika® Trocal®** range
- Joint sealing: **Sikaflex®** range



Civil Engineering Structures

- Bridges and viaducts
- Tunnels and dams
- Military installations
- Car parks

Sika Systems

- Corrosion protection: **SikaTop®**, **Sika® MonoTop®** range
- Waterproofing membrane: **Sikalastic®** and **Sika® Trocal®** ranges
- Reprofiling horizontal: **Sika® ViscoCrete® SCC** concrete technology **Sikafloor® EpoCem®** range
- Reprofiling vertical: **Sikacrete® Gunit**, **Sika® MonoTop®** ranges
- Protection: **Sikagard®** range
- Structural strengthening: **Sika® CarboDur®** and **SikaWrap®** ranges



Chimneys, Silos, Cooling Towers

- Chimneys, incinerators
- Power stations, cooling towers
- Storage silos

Sika Systems

- Repair and protection mortars: **SikaTop®**, **Sika® MonoTop®**, **SikaCem® Gunit** ranges
- Coatings and impregnations: **Sikagard®** range
- Strengthening: **Sika® CarboDur®** and **SikaWrap®** ranges

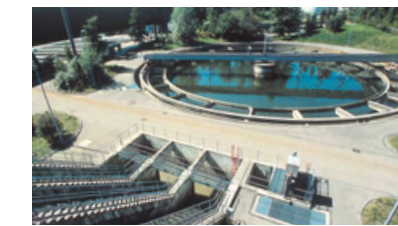


Potable Water Storage, Reservoirs

- Reservoirs
- Water treatment plants
- Water towers

Sika Systems

- Repair and protection: **Sika®-101/102 HD** thin layer mortars, **SikaTop®**, **Sika® MonoTop®** ranges
- Protective coatings: **Sikagard®** range
- Waterproof membrane: **Sika® Trocal®** range
- Joint sealing: **Sikaflex®** range, **Sikadur®-Combiflex®** system



Structures in aggressive Environments

- Sewage treatment plants
- Marine structures
- Waste containment

Sika Systems

- Repair and protection: **Sikadur®** and **Sikagard® EpoCem®** and **Sikagard®** ranges
- Waterproof membrane: **Sikalastic®** and **Sika® Trocal®** ranges
- Joint sealing: **Sikadur®-Combiflex®** system, **Sika® Tank**, **Sikaflex®** ranges



Concrete Roads, Runways

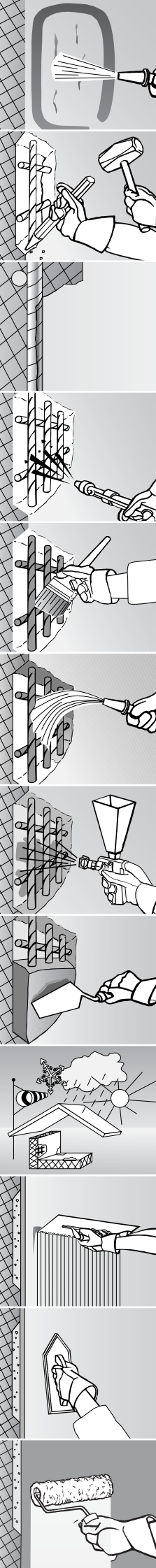
- Runways
- Parking, taxiway and apron areas
- Roads and carriageways

Sika Systems

- Advanced concrete technologies: **Sika® ViscoCrete® SCC**, **SikaCem®**, **Sika® FastFix**, **Sikadur® Pronto** ranges etc.

Advanced Sika® Technologies

- **Sika® FerroGard®** Corrosion Inhibitors
- **SikaGrout®** High Performance Grouts
- **Sikadur® EpoCem®** Mortars
- **Sika® ViscoCrete®** SCC Technology

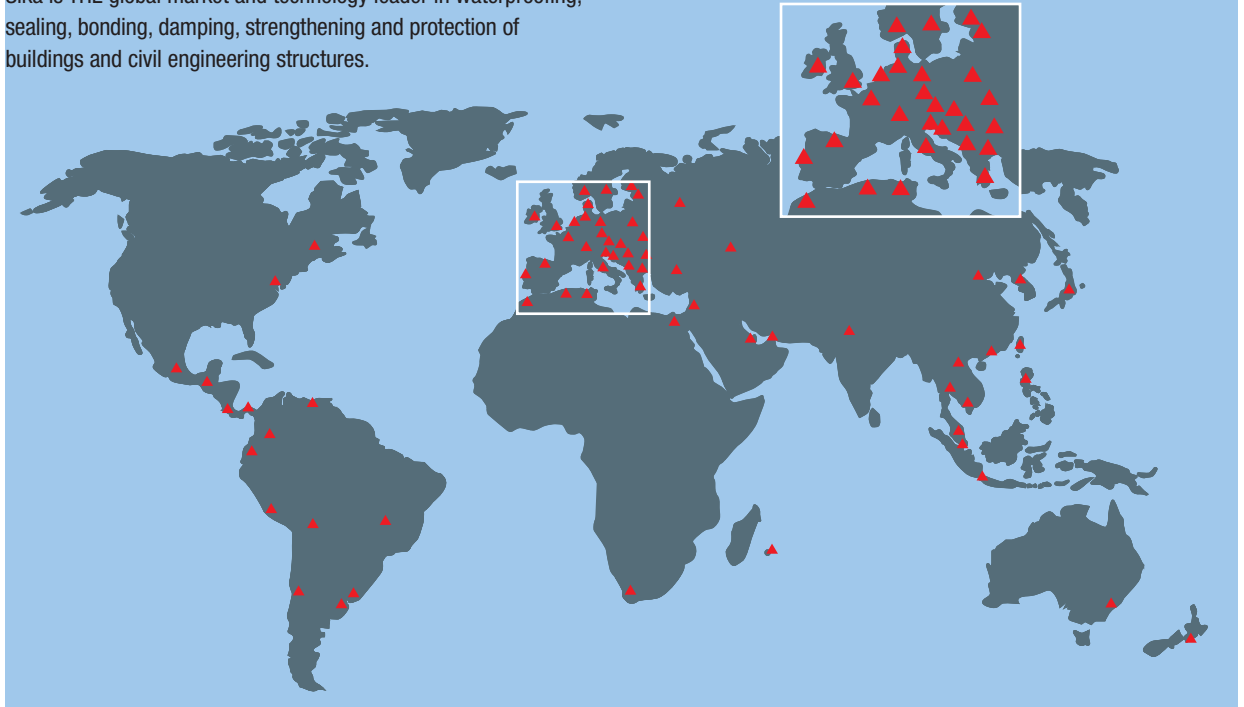


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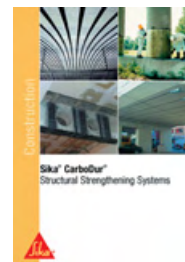
Sika – Your Local Partner with a Global Presence

Sika is a multinational company in the speciality and construction chemicals business. It has subsidiary manufacturing, sales and technical support facilities in over 70 countries around the world. Sika is THE global market and technology leader in waterproofing, sealing, bonding, damping, strengthening and protection of buildings and civil engineering structures.

Sika has more than 9'200 employees in these subsidiary companies' facilities that are therefore ideally positioned to support the success of our partners – both our suppliers and our customers.



Also available from Sika



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Your local Sika Company

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

