WATERPROOFING
SIKA SOLUTIONS FOR POTABLE WATER
WITH SIKA WATERPROOFING SYSTEMS
**ADVANTAGES OF OUR SOLUTION**

Potable water is an essential foodstuff. That request absolute clean and watertight facilities to process and store it. Waterproofing of reservoirs and tanks containing potable waters must not only be watertight over long periods, but shall also be easy maintainable, food safe, and harmless to health. Sika waterproofing products used in potable water reservoirs and tanks comply with the strict regulations of public water authorities. Food and beverage industry rely on high performance of Sika waterproofing systems in their process water tanks. As the global leader in providing structural waterproofing solutions, Sika has the most complete and comprehensive range of products and systems, that are designed and can be adapted to meet the specific needs and requirements of owners of water reservoirs, architects, engineers and contractors on site.

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WATERPROOFING SOLUTIONS FOR POTABLE WATER RESERVOIRS

VARIOUS INTERNAL WATERPROOFING SYSTEMS that are in direct contact with potable water must fulfill stringent requirements regarding hygiene, durability, exposure and stress conditions, construction method and sequence, ease of application and total cost management. This is required as potable water out of natural resources is our most essential foodstuff. Potable water, stored in reservoirs need to be protected to keep it clean. Water reservoirs or tanks in any form to store potable water must be watertight. The waterproofing of reservoirs and tanks must fulfill demands of long service life.

Sika’s expertise is combined with more than 100 years of experience from all around the world in the successful waterproofing of water retaining structures. Sika waterproofing experts are able to support our customers throughout their projects, from initially determining the best waterproofing concept, through the detailed design and detailing to site support for successful installation and completion on site, including remedial solutions for any existing structures.

Types of Water Reservoirs

**ABOVE GROUND**
- Tanks
- Towers

**BELOW GROUND**
- Tanks
- Caverns

New or existing tanks and reservoirs to store potable waters are made of concrete or steel structures built above ground or below ground. Water towers in flat country sides or caverns in mountainous area at elevated level secure hydraulic pressure in water supply pipe network.

Depending to local requirements for water-holding structures and local water quality conditions, the type of waterproofing for reservoirs can be rigid by cementitious products like structural concrete or mortar layers, or flexible by liquid applied layers of reactive resins combined with joint sealing systems, also on steel substrates, or at least linings with loose laid waterproofing sheet membranes. Surface applied waterproofing systems are useable either in new, and existing structures in case of waterproofing refurbishments.

All these solutions are designed to meet the specific needs and requirements of owners, engineers and contractors on site.
EXPOSURES AND STRESS

EXPOSURES IN POTABLE WATER RESERVOIRS

Depending to water source, potable waters in various regions differ in quality referring content of minerals, pH value, water temperature conditions and treatment of waters with chemicals by local reservoir holders. Water-holding structures, such as water reservoirs and water treatment facilities, mainly made of reinforced concrete or steel structures, are exposed to various influences:

- Low pH value as well as soft water attacks cementitious substrates
- Temperature variations may cause cracks in concrete
- Stray currents may accelerate hydrolytic corrosion
- Chlorine treatment and disinfectants of water to keep the water clean
- Alkalinity of concrete may influence the pH value of water
- Micro-organisms, algae and fungi may influence the water hygiene
- Water turbulences request solutions to prevent washing out effects

IMPACTS ON VARIOUS SUBSTRATES

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Substrate</th>
<th>Concrete</th>
<th>Mortar</th>
<th>Coating</th>
<th>Membrane</th>
<th>Steel</th>
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</thead>
<tbody>
<tr>
<td>Alkalinity of concrete</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Disinfectants</td>
<td>+</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Chlorine treatment</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>+</td>
</tr>
<tr>
<td>Ozone treatment</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Soft water</td>
<td>+</td>
<td>+</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Low pH-value</td>
<td>+</td>
<td>+</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>+</td>
</tr>
<tr>
<td>Micro-organisms</td>
<td>-</td>
<td>-</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>-</td>
</tr>
<tr>
<td>Fungicide</td>
<td>-</td>
<td>-</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>-</td>
</tr>
<tr>
<td>Stray currents</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>+</td>
</tr>
<tr>
<td>Hydraulic pressure</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Water turbulences</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Algae</td>
<td>+</td>
<td>+</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

- no influence, + with influence
PROJECT REQUIREMENTS AND USE OF WATERPROOFING SYSTEM

Depending on the specific exposures, the waterproofing system must fulfill the following requirements:

- Resistance to cleaning agents
- Resistance to chlorine and ozone
- Resistance to algae and micro-organisms
- Resistance to hydrostatic pressure
- Smooth appearance of surface for easy cleaning
- No leaching from surface applied waterproofing into water
- No affect on drinking water quality
- Easy and reliable to apply and install of surface applied system
- Long service life expectancy of waterproofing
- Resistance against soft water

<table>
<thead>
<tr>
<th>Hygiene conditions of systems</th>
<th>Water tightness of systems</th>
<th>Standard requirements to water hygiene</th>
<th>Standard requirements</th>
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<tbody>
<tr>
<td>Microorganism in pores and capillaries of concrete surface</td>
<td>Absorption due to porosity of concrete surface</td>
<td>EN 1508: systems and components for the storage of water (general requirements)</td>
<td>EN 1508: systems and components for the storage of water (general requirements)</td>
</tr>
<tr>
<td>Chlorine demand, turbidity, Odour/Flavour, Organic carbon limit</td>
<td>No absorption (no water permeability into mortar)</td>
<td>EN – 805 requirement for water reservoirs in service</td>
<td>EN – 805 requirement for water reservoirs in service</td>
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<tr>
<td>No absorption (no water permeability into membrane)</td>
<td>No absorption (no water permeability into coating)</td>
<td>EN 13361 characteristics for geosynthetic barriers for reservoir structures</td>
<td>EN 13361 characteristics for geosynthetic barriers for reservoir structures</td>
</tr>
</tbody>
</table>

PERFORMANCE OF DIFFERENT WATERPROOFING TECHNOLOGIES:

- **Sheet waterproofing membrane**
  - Durability / Reliability: high
  - Exposure exposure / aggressive content of water: low
- **Watertight concrete**
  - Durability: low: 10 – 15 years, medium: 10 – 20 years, high: > 20 years/refurbishment required
  - Exposure exposure / aggressive content of water: low: water turbulences only, medium: low pH-value, algae, no temperature variations, high: soft water, low pH-value, High temperatures
SIKA PROVIDES A WIDE RANGE of different waterproofing systems and solutions. The selection of the best system for a specific project depends on many factors, including the local water condition. The choice of most suitable waterproofing system depends on nature of reservoir structure and water quality.

RIGID WATERPROOFING SYSTEMS

WATERTIGHT CONCRETE
Waterproofing with concrete admixtures, combined with joint sealing products

<table>
<thead>
<tr>
<th>Concrete admixtures</th>
<th>Joint sealing products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sika® ViscoCrete®</td>
<td>Sika® Waterbar®</td>
</tr>
<tr>
<td>SikaPlast®</td>
<td>Sika®Fuko® Injection hose</td>
</tr>
<tr>
<td>Sikament®</td>
<td>Sika® Combiflex® SC Bonded tape</td>
</tr>
<tr>
<td>Sika® WT</td>
<td></td>
</tr>
</tbody>
</table>

WATERTIGHT MORTAR LININGS
Waterproofing with waterproofing mortars, combined with joint sealing products

<table>
<thead>
<tr>
<th>Mortar lining</th>
<th>Joint sealing products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sika®-110 HD</td>
<td>Sika® Waterbar®</td>
</tr>
<tr>
<td>SikaTop® Seal-107</td>
<td>Sika®Fuko® Injection hose</td>
</tr>
<tr>
<td></td>
<td>Sika® Combiflex® SC Bonded tape</td>
</tr>
</tbody>
</table>

FLEXIBLE WATERPROOFING SYSTEMS

WATERTIGHT COATING
Waterproofing lining with liquid applied reactive resins, combined with joint sealing products

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<thead>
<tr>
<th>Coating</th>
<th>Joint sealing products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sika® Permacor®-136 TW</td>
<td>Sika® Waterbar®</td>
</tr>
<tr>
<td></td>
<td>Sika®Fuko® Injection hose</td>
</tr>
<tr>
<td></td>
<td>Sika® Combiflex® SC Bonded tape</td>
</tr>
</tbody>
</table>

LINING WITH SHEET WATERPROOFING MEMBRANES
Waterproofing lining with loose laid sheet membranes, combined with joint sealing products

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<th>Sheet membrane lining</th>
<th>Joint sealing products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sikaplan® WT 4220-15 C</td>
<td>Sika® Waterbar®</td>
</tr>
<tr>
<td></td>
<td>Sika®Fuko® Injection hose</td>
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</table>

WATERPROOFING SYSTEMS

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<th>WATERPROOFING SYSTEMS</th>
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<th>PERFORMANCE</th>
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<td>Watertight concrete for white box system</td>
<td>Sika® ViscoCrete® -103 TW</td>
<td>Conventional superplasticizer, concrete admixture product.</td>
</tr>
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<td>Watertight mortars for post applied rigid waterproofing layers</td>
<td>SikaTop® Seal-107</td>
<td>Mortar layer, based on cementitious mortar and polymer-modified mortar.</td>
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<tr>
<td>Waterproofing of joints</td>
<td>Sika® Waterbar®</td>
<td>Joint profiles on base of thermoplastic PVC and FPO for waterproofing of construction and expansion joints.</td>
</tr>
<tr>
<td></td>
<td>Sika®Fuko® Injection hose</td>
<td>Ready to use joint sealing tapes for surface applied joint sealing, adhered with SikaDur®-31 adhesives.</td>
</tr>
<tr>
<td></td>
<td>Sika® Combiflex® SC tape</td>
<td></td>
</tr>
<tr>
<td>Flexible sheet membrane waterproofing</td>
<td>Sikaplan® WT 4220-15 C</td>
<td>Hygiene approved sheet membranes on base of thermoplastic FPO for loose laid lining of water reservoirs and tanks.</td>
</tr>
<tr>
<td></td>
<td>Sikaplan® WT 4220-15 C Felt</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sikaplan® WT 4220-18 H</td>
<td></td>
</tr>
<tr>
<td>Liquid applied waterproofing coatings</td>
<td>Sika® Permacor®-136 TW</td>
<td>Two-component coating on base of epoxy resin.</td>
</tr>
<tr>
<td>Injection systems for repair</td>
<td>Sika® InjectoCem®-190</td>
<td>One-component injection grout on base of microcement-suspension for concrete repair and crack-sealing by injection method into structural concrete.</td>
</tr>
<tr>
<td></td>
<td>Sika® Injection-306</td>
<td>Two-component injection resins on base of Acrylate for waterproofing of cracks and joints into structural concrete.</td>
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DEPENDING TO PROJECT SPECIFICATION for lining of potable water reservoirs, most cost optimized solution is considered in order to fulfill requirements of reservoirs structure and estimated exposure to local water quality.
The concept of watertight concrete involves optimum structural design and reinforcement together with an integral rigid waterproofing solution. This consists of a waterproof concrete, combined with appropriate joint sealing system for any necessary construction- and movement joints. To produce watertight concrete requests admixtures including superplasticisers and pore-blocking or active crystallization agents, in order to ensure optimum consistence, flow and ease compaction in a dense matrix of minimal voids. In addition, there are Sika joint sealing systems in use for watertight concrete, such as FPO-based waterstops, hydrophilic gaskets and sealants to seal construction- and expansion joints.

**INTEGRAL, RIGID AND COST EFFICIENT SYSTEM**

**Concrete admixtures**
- **Sika® ViscoCrete®**
  - Mid and High Range Water Reducing admixtures for reducing pore volumes and improving rheology for consistence.
- **Sika® Plastiment**
  - Pore-blocking and active crystalline admixtures to block pores against water penetration.
- **Sika® WT**
  - Shrinkage reducing admixture to limit crack formation throughout the hardening phase.
- **SikaFume®**
  - Additives based on pozzolanic silica fume that can be used to reduce the hardened pore volume of the concrete.

**Joint sealing products**
- **Sika Waterbar®s**
  - Cast in place and internal waterstops on base of hygiene approved FPO, cast in concrete for the waterproofing of joints.
- **Sikadur-Combiflex® SG**
  - Adhesive sealing tape on base of FPO, bonded with Sikadur®-31 EP adhesive for post applied joint sealing system.
- **SikaFuko®**
  - Injection hoses ready to use and re-injectable injection hose with, or without reverse flow and hydro-swelling properties for the waterproofing of construction joints.

**USE**
- Local water authority specify concrete structure
- Water quality allows concrete surfaces
- No additional linings required
- No structural settlements

**MAIN ADVANTAGE**
- Cost effective solution concerning material and construction works
- Reduced working procedures on site
- Long lasting waterproofing solution

**TYPICAL PROJECTS**
- Above ground reservoirs
- Below ground reservoirs
- Water towers

**SIKA PRODUCTS AND SYSTEM SOLUTIONS**
SIKA WATERPROOFING MORTARS

RIgid Mortar System

Sika waterproof mortars and mortar admixtures for rigid waterproofing lining in potable water tanks have excellent technical properties to seal against damp soil, seepage and percolating water. These materials are applied on prepared, internal concrete surfaces by manual application or by spray to provide excellent solutions for complicated detailing. The post-applied waterproofing mortar is used in combination with joint sealing products. Applied Sika waterproofing mortar linings have long lasting service life.

**Sika waterproof mortars and mortar admixtures**

**SikaTop® Seal-107**
Two-component, polymer modified cementitious waterproofing with slight flexibility for application for waterproofing internal, on concrete substrates.

**Joint sealing products**

**Sika Waterbar®s**
Cast in place and internal waterstops on base of hygiene approved FPO, cast in concrete for the waterproofing of joints.

**Sikadur-Combiflex® SG**
Adhesive sealing tape on base of FPO, bonded with Sikadur®-31 EP adhesive for post-applied joint sealing system.

**SikaFuko®**
Injection hose
Ready to use and re-injectable injection hose with, or without reverse flow and hydro-swelling properties for the waterproofing of construction joints.

**Main Advantages**

- Chemical and abrasion resistant
- Easy applicable on complex details
- Can be combined with Sika joint sealing systems
- Long lasting waterproofing solution
- Hygienic shape

**Typical Projects**

- Above ground reservoirs
- Below ground reservoirs
- Water towers
- Caverns

**Use main advantage typical projects**

- Suitable for refurbishment of reservoirs
- No cracks of substrate to expect
- No structural settlements
- Chemical and abrasion resistant
- Easy applicable on complex details
- Can be combined with Sika joint sealing systems
- Long lasting waterproofing solution
- Hygienic shape

**Waterproofing mortars**

- SikaTop® Seal-107: Two-component, polymer modified cementitious waterproofing with slight flexibility for application for waterproofing internal, on concrete substrates.

**Joint sealing products**

- Sika Waterbar®s: Cast in place and internal waterstops on base of hygiene approved FPO, cast in concrete for the waterproofing of joints.
- SikaFuko®: Injection hose

**SIKA PRODUCTS AND SYSTEM SOLUTIONS**
Sika® Permacor – LIQUID APPLIED WATERPROOFING SYSTEM

FAST TO APPLY AND CRACK-BRIDGING SYSTEM

Sika liquid applied membranes (LAM) are highly elastic and flexible polymeric systems, based on epoxy resins. These materials are applied on prepared/primed internal concrete and steel surfaces by manual application, or by spray to provide excellent solutions for complicated detailing. Liquid applied membrane will also prevent underflow of any lateral water in the event of local damage and corrosion of steel substrates.

USE
- Suitable for refurbishment of reservoirs
- No cracks of substrate to expect
- No structural settlements
- Chemical and abrasion resistant
- Easy applicable on complex details
- Can be combined with Sika joint sealing systems
- Long-lasting waterproofing solution
- Corrosion protection of steel tanks

TYPICAL PROJECTS
- Above ground reservoirs
- Below ground reservoirs
- Water towers
- Steel tanks

SIKA PRODUCTS AND SYSTEM SOLUTIONS

<table>
<thead>
<tr>
<th>Waterproofing coating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sika® Permacor®-136 TW Two-component coating on base of EP-resin</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Joint sealing products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sika Waterbar®s Cast in place and internal waterstops on base of hygiene approved FPO, cast in concrete for the waterproofing of joints.</td>
</tr>
<tr>
<td>Sikadur-Combiflex® SG Adhesive sealing tape on base of FPO, bonded with Sikadur®-31 EP adhesive for post applied joint sealing system.</td>
</tr>
<tr>
<td>SikaFuko® Injection hoses Ready to use and re-injectable injection hose with, or without reverse flow and hydro-swelling properties for the waterproofing of construction joints.</td>
</tr>
</tbody>
</table>

WATERPROOFING
SIKA SOLUTIONS FOR POTABLE WATER
**LINING WITH Sikaplan® SHEET MEMBRANE WATERPROOFING SYSTEM**

**HIGH PERFORMANCE, CRACK-BRIDGING, FAST TO INSTALL**
High flexible waterproofing system, using Sikaplan FPO-based, hygiene approved sheet waterproofing membrane liner, installed on concrete structure of potable water reservoirs. The installed waterproofing sheet membrane can be used in combination with joint sealing products. Installed Sikaplan waterproofing sheet membrane linings have long lasting service life.

**USE**
- Suitable for new and refurbishment of reservoirs

**MAIN ADVANTAGE**
- Chemical resistant
- Easy applicable on complex details
- Can be combined with Sika joint sealing systems
- Long lasting waterproofing solution
- No substrate preparation required

**TYPICAL PROJECTS**
- Above ground reservoirs
- Below ground reservoirs
- Water towers
- Steel tanks
- Caverns

**SIKA PRODUCTS AND SYSTEM SOLUTIONS**

<table>
<thead>
<tr>
<th>Waterproofing sheet membranes</th>
<th>MAIN ADVANTAGE</th>
<th>TYPICAL PROJECTS</th>
</tr>
</thead>
</table>
| Sikaplan® WT 4220-15 C | RPD sheet waterproofing membranes, for the purpose of waterproofing in potable water tanks and reservoirs, unrolled, mechanically fixed at walls, at least membrane overlaps sealed by heat welding.

<table>
<thead>
<tr>
<th>Joint sealing products</th>
<th>MAIN ADVANTAGE</th>
<th>TYPICAL PROJECTS</th>
</tr>
</thead>
</table>
| Sika Waterbar®s | Cast in place and internal waterstops on base of hygiene approved RPD, cast in concrete for the waterproofing of joints.

<table>
<thead>
<tr>
<th>Joint sealing products</th>
<th>MAIN ADVANTAGE</th>
<th>TYPICAL PROJECTS</th>
</tr>
</thead>
</table>
| Sikadur-Combiflex® SG | Adhesive sealing tape on base of RPD, bonded with Sikadur®-31 EP adhesive for post applied joint sealing system.

<table>
<thead>
<tr>
<th>Joint sealing products</th>
<th>MAIN ADVANTAGE</th>
<th>TYPICAL PROJECTS</th>
</tr>
</thead>
</table>
| SikaFuko® | Ready to use and re-injectable injection hose with, or without reverse flow and hydro-swelling properties for the waterproofing of construction joints.

**SIKA PRODUCTS**

- Waterproofing sheet membrane: Sikaplan®
- Joint sealing products: Sika Waterbar®s, Sikadur-Combiflex® SG
- Injection hoses: SikaFuko®
# RESERVOIR WATERPROOFING SOLUTION OVERVIEW

<table>
<thead>
<tr>
<th>Technology / Type of system</th>
<th>Rigid Waterproofing</th>
<th>Semi Rigid Waterproofing</th>
<th>Flexible Waterproofing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nature of surface to potable water</td>
<td>Cement based</td>
<td>Cement based</td>
<td>EP-resin based</td>
</tr>
<tr>
<td>Waterproofing concept</td>
<td>Integral waterproofing of reservoir structure, combined with joint sealing</td>
<td>Internal waterproofing lining of reservoir structure, combined with joint sealing for concrete structures</td>
<td>Internal waterproofing lining of reservoir structure for steel structures</td>
</tr>
<tr>
<td>Substrate conditions</td>
<td>New structures</td>
<td>New and existing structures</td>
<td>New and existing structures</td>
</tr>
<tr>
<td>Substrate preparation requirements</td>
<td>Controlled conditions for concreting on site required (temperature)</td>
<td>Controlled conditions on site required (temperature, water, humidity)</td>
<td>Substrate preparation required</td>
</tr>
<tr>
<td>Advantages</td>
<td>Very cost effective</td>
<td>Easy detailing solutions</td>
<td>Very cost effective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substrate preparation requirements</th>
<th>New and existing structures</th>
<th>New and existing structures</th>
<th>New and existing structures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substrate preparation required</td>
<td>Reinforced concrete</td>
<td>Reinforced concrete</td>
<td>Steel</td>
</tr>
<tr>
<td>Substrate cleaning required</td>
<td>Brickwork</td>
<td>Steel</td>
<td>Steel</td>
</tr>
<tr>
<td>Advantages</td>
<td>Simple and fast construction</td>
<td>Simple and fast to apply</td>
<td>Simple and fast to apply</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substrate preparation requirements</th>
<th>Controlled conditions on site required (temperature, dry substrate, low humidity)</th>
<th>Substrate preparation required</th>
<th>Substrate preparation required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substrate cleaning required</td>
<td>Crack-briding: ++</td>
<td>Crack-briding: ++</td>
<td>Crack-briding: +++</td>
</tr>
<tr>
<td>Substrate cleaning required</td>
<td>Chemical resistance: ++</td>
<td>Chemical resistance: ++</td>
<td>Chemical resistance: ++</td>
</tr>
<tr>
<td>Substrate cleaning required</td>
<td>Durability: +</td>
<td>Durability: ++</td>
<td>Durability: +++</td>
</tr>
</tbody>
</table>

- **Rigid Waterproofing**
  - System: Waterproofing mortar coating
  - Nature: Cement based
  - Waterproofing: Internal waterproofing lining of reservoir structure, combined with joint sealing
  - Substrate: New structures

- **Semi Rigid Waterproofing**
  - System: Liquid applied coating Sikagard®
  - Nature: EP-resin based
  - Waterproofing: Internal waterproofing lining of reservoir structure for concrete structures
  - Substrate: New and existing structures

- **Flexible Waterproofing**
  - System: Loose laid and mechanically fixed membrane Sikaplan®
  - Nature: Polyethylene based
  - Waterproofing: Internal waterproofing lining of reservoir structure for steel structures
  - Substrate: New and existing structures
In situations with loss of water due to localized damage of the rigid waterproofing system, appropriate repair works have to be undertaken. This can be done by injection to seal leaking areas in reservoirs and tanks, waterproofed either by water-tight concrete, or lined with waterproofing mortar layers. According to the type of leakage, if through joints, cracks in structural concrete, the most suitable material has to be injected.

The success factor of durable and tight injection work is a combination of Sika’s materials and equipment selection, as well as application experience.

**SIKA PRODUCTS AND SYSTEM SOLUTIONS**

**Crack- and joint sealing products**

- **Sika® Injection-300 series**
  Elastic, very low viscosity polyacrylate injection resin for permanent sealing of water-bearing cracks, voids and joints in concrete.

- **Sikadur-Combiflex® SG**
  Adhesive sealing tape on base of FPO, bonded with Sikadur-31 EP adhesive for post applied joint sealing system. Sealing around pipe penetrations and access door frames.

- **SikaTop® Seal-107**
  Two component and cementitious waterproofing mortars for repair and sealing of crack in concrete and repair of honey-combed concrete surfaces.

**USE**

- Suitable for new and refurbishment of existing reservoirs
- Quick repair methods by injection of cracks and joints to be sealed in concrete
- Quick repair for sealing with waterproofing mortars and Sikadur®-Combiflex® system on concrete surface

**MAIN ADVANTAGE**

- Above ground reservoirs
- Below ground reservoirs
- Water towers
- Caverns
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 is a globally active specialty chemicals company supplying 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.

Sika UAE LLC
P.O. Box 126212
Dubai, UAE
T: +971 4 439 8200
F: +971 4 439 3606
info@ae.sika.com

Sika Saudi Arabia Co. Ltd
P.O. Box 58647, Riyadh 11583
Kingdom of Saudi Arabia
T: +966 11 2176532
F: +966 11 4193607
info@sa.sika.com

Sika International Chemicals LLC
P.O. Box 55172
Abu Dhabi, UAE
T: +971 2 643 0364
F: +971 2 676 0840
info@ae.sika.com

Sika Gulf B.S.C.
P.O. Box 15776
Adliya, Bahrain
T: +973 17 738 188
F: +973 17 732 476
info@bh.sika.com

Sika Qatar LLC
P.O.Box 201847
Doha, Qatar
T: +974 40163366
F: +974 40163370
sika.qatar@bh.sika.com

Sika Kuwait for Construction
Materials & Paints W.L.L
State of Kuwait
T: +965 2228 2296
F: +965 2228 2297
sika.kuwait@bh.sika.com