



# WATER MANAGEMENT DRINKING AND WASTEWATER FACILITIES

SELECTION GUIDE

BUILDING TRUST

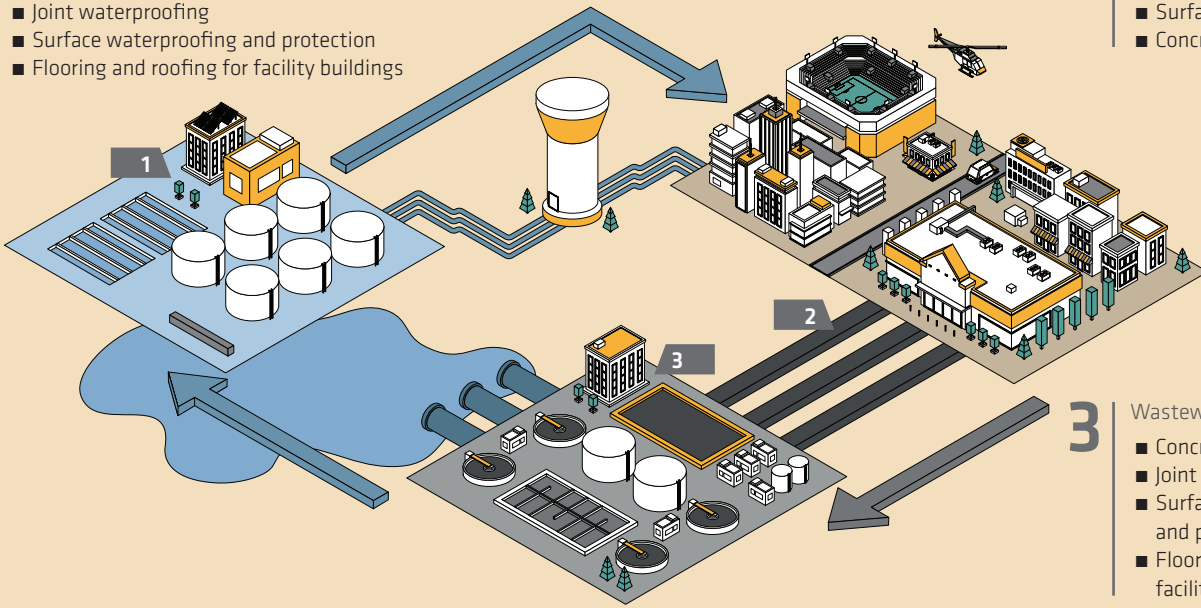


## OVERVIEW

- 1** Potable Water Plant, Reservoir, Desalination Plant, Water Tower
- Concrete construction
  - Joint waterproofing
  - Surface waterproofing and protection
  - Flooring and roofing for facility buildings

- 2** Sewers, Manhole
- Concrete construction
  - Surface protection
  - Concrete repair

- 3** Wastewater Treatment Plant
- Concrete construction
  - Joint waterproofing
  - Surface waterproofing and protection
  - Flooring and roofing for facility buildings



## PRODUCT OFFERINGS

Product Group	Product Type	Product Example	Drinking Water Plant / Reservoir	Desalination Plants	Sewer and Manhole	Wastewater Treatment Plant
Admixtures	Waterproofing Admixture	Sika® WT 200 P				
Concrete Repair	Rebar Protection	Sika MonoTop®-1010 / SikaTop® Armatex®-110 EpoCem®				
	Patch Repair	Sika MonoTop®-4012				
	Grouting	SikaGrout®-214				
Protective Mortars	Moisture barrier and protection	Sikagard®-720 EpoCem®				
	Calcium Aluminate Cement	Sika MonoTop®-4400 MIC				
	Reprofiling and levelling mortar	Sika MonoTop®-620 / Sika MonoTop®-3020				
Waterproofing Mortars	Dual component WP Mortar	SikaTop®-107 Seal				
	Single component WP Mortar	Sikalastic®-1K				
Multi-Layer Epoxy Resin	Protective coating	Sikagard®-62 / Sikagard®-63 N				
	Protective coating	SikaCor®-950 F				
	Digester coating	Sika®Permacor®-3326 EG H				
	Reinforcement	Sika® Glass Fabric				
Hot-Spray Membrane	Drinking Water LAM	Sikalastic®-836 DW / Sikalastic®-840 ES				
	Digester coating	Sikalastic®-8440				
	Chemical resistant coating	Sikalastic®-8800 / Sikalastic®-8850				
Joint Waterproofing	Waterstops	Sika Waterbar® PVC, SikaSwell® A & S2				
	Joint Tapes	Sikadur® Combiflex® SG				
Sealant	Concrete Joint Sealant	Sikaflex® PRO-3				
Anchoring	Chemical Anchoring	Sika AnchorFix®-3030				
Outer Tank Waterproofing	Sheet membranes	SikaProof® / SikaShield®				
Repair Injection	PU flexible injection	Sika® Injection-201 CE / Sika® Injection-101 RC				

■ Approved application
 ■ Possible application
 ■ Not recommended



## PERFORMANCE TABLE FOR PROTECTIVE COATINGS IN CONTACT WITH DRINKING WATER

Exposure	Crystalline	Waterproofing Mortars		Multi-Layer Resins	Hot-Spray Membranes	Sheet Membranes
	Sika® WT-200 P	SikaTop®-107 Seal	Sikalastic®-1K	Sikagard®-62 / SikaCor®-146 DW	Sikalastic®-840 ES / Sikalastic®-836 DW	Sikaplan® WT-4220
Substrate humidity	N/A	Moist	Moist	Dry*	Dry*	Wet
Crack bridging ability	No	No	> 0.5 mm	No, with reinforcement 0.3 – 0.5 mm	High	Very high
Resistance to soft water	Low	Low	Low	High	High	High
Application thickness	N/A	> 2 mm	> 2 mm	Variable	1.5 – 2 mm	1.5 mm

\* If substrate moisture content is >4%, a temporary moisture barrier Sika® EpoCem® is required

## PERFORMANCE TABLE FOR PROTECTIVE COATINGS IN CONTACT WITH WASTE WATER

Exposure	WP Mortars	Protective Mortars		Multi-Layer Resins			Hot-Spray Membranes	
	SikaTop® etc.	Sikagard®-720 EpoCem®	Sika MonoTop®-4400 MIC	SikaCor®-950 F	Sikagard®-62 / 63 N	Sika® Permacor®-3326 EG H	Sikalastic®-8440	Sikalastic®-8800 / 8850
Substrate humidity	Moist	Moist	Moist	Moist	Dry*	Dry*	Dry*	Dry*
Crack bridging	0 to 0.5 mm	No	No	No	No, with reinforcement up to 0.5 mm	No, with reinforcement up to 3.0 mm	High	High
Waterproof	Yes	Yes	No	+/-	Yes	Yes	Yes	Yes
Resistance to sulfates (SO <sub>4</sub> <sup>2+</sup> )	Limited	Medium	Very high	High	High	Very high	Very high	High
Resistance to biogenic sulfuric acid (H <sub>2</sub> SO <sub>4</sub> )	No	Limited	Very high**	Limited	Medium	Very high	Very high	Limited
UV Resistance	Yes	Yes	Not relevant	Limited	Limited***	Limited***	Yes (Color will change)	Yes (Color will change)
Application thickness	> 2 mm	2 mm	> 15 mm	Variable	Variable	Variable	1.5 – 2 mm	1.5 – 2 mm

\* If substrate moisture content is >4%, a temporary moisture barrier Sika® EpoCem® is required

\*\* Prevent the transformation of H<sub>2</sub>S into H<sub>2</sub>SO<sub>4</sub>. Not to be immersed in high acidic solution – no chemical protection

\*\*\* To avoid discoloration and chalking, depending on the chemistry, products like Sikafloor®-359 N, SikaCor® EG-5 can be applied on top for exposed areas

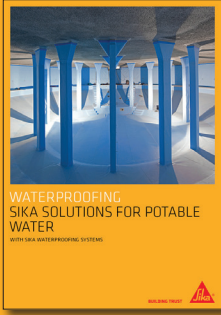
## SELECTION TABLE FOR PROTECTIVE COATINGS IN CONTACT WITH WASTE WATER

Use	WP Mortars	Protective Mortars		Multi-Layer Resins			Hot-Spray Membranes	
	SikaTop® etc.	Sikagard®-720 EpoCem®	Sika MonoTop®-4400 MIC	SikaCor®-950 F	Sikagard®-63 N / Sikagard®-62	Sika® Permacor®-3326 EG H	Sikalastic®-8440	Sikalastic®-8800 / 8850
WWTP: Screening & Sedimentation Tanks (open)	Approved application	Approved application	Not recommended	Approved application	Approved application	Approved application	Approved application	Approved application
WWTP: Confined pits and elements	Not recommended	Not recommended	Approved application	Not recommended	Not recommended	Approved application	Approved application	Not recommended
WWTP: Anaerobic Digester / Biogas Tank	Not recommended	Suitable as underlayment	Not recommended	Not recommended	Local solution	Reinforcement recommended	Approved application	Not recommended
Industrial Waste Tanks* & Effluent Treatment Plants	Not recommended	Suitable as underlayment	Not recommended	Actual composition to be reviewed	Actual composition to be reviewed	Actual composition to be reviewed	Actual composition to be reviewed	Actual composition to be reviewed

\* For certain chemicals and for secondary containments, other coatings might be required, f.e. SikaCor® VEL (vinyl ester)

Approved application      Possible application      Not recommended

# ALSO AVAILABLE FROM SIKA



## FOR MORE INFORMATION ON WATER INDUSTRY SOLUTIONS:



### WE ARE SIKA

Sika is a specialty chemicals company with a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing and protecting in the building sector and the motor vehicle industry. Sika's product lines feature concrete admixtures, mortars, sealants and adhesives, structural strengthening systems, flooring as well as roofing and waterproofing systems.

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



**SIKA SERVICES AG**  
Tueffenwies 16  
CH-8048 Zurich  
Switzerland

**Contact**  
Phone +41 58 436 40 40  
www.sika.com

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