



# WATER MANAGEMENT DRINKING AND WASTEWATER FACILITIES

SELECTION GUIDE

BUILDING TRUST

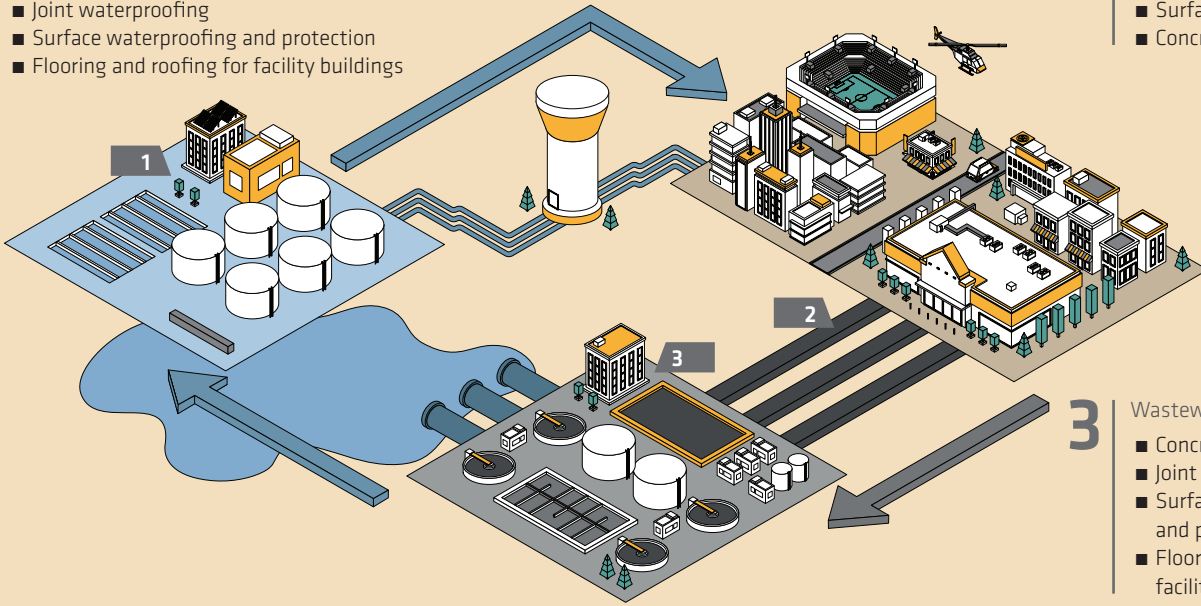


## OVERVIEW

- 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 TH				
Concrete Repair	Rebar Protection	SikaTop® Armatec® -110 EpoCem®				
	Patch Repair	Sika MonoTop® -614 T				
	Grouting	SikaGrout® -214 TH				
Protective Mortars	Moisture barrier and protection	Sikagard®-75 EpoCem® / Sikafloor®-81 EpoCem®				
Waterproofing Mortars	Dual component WP Mortar	SikaTop®-107 Seal TH				
	Single component WP Mortar	LANKO 227 FLEX SHIELD				
Multi-Layer Epoxy Resin	Protective coating	Sikagard®-62 / Sikagard®-63 N				
	Protective coating	SikaCor®-950 F				
Hot-Spray Membrane	Drinking Water LAM	Sikalastic®-870 BT				
	Chemical resistant coating	Sikalastic®-870 BT				
Joint Waterproofing	Waterstops	Sika Waterbar® PVC, SikaSwell® A & S2				
	Joint Tapes	Sikadur® Combiflex® SG				
	Hydrophilic swellable	SikaSwell® S-2, Sika® Hydrotite CJ				
Sealant	Concrete Joint Sealant	Sikaflex® PRO-3 SL				
Anchoring	Chemical Anchoring	Sika AnchorFix®-3030				
Outer Tank Waterproofing	Sheet membranes	SikaProof®-612 / SikaShield® W159 ED 1.5 mm				
Repair Injection	PU flexible injection	Sika® Injection-127 H				

■ 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
	Sika® WT-200 P TH	SikaTop®-107 Seal TH	LANKO 227 FLEX SHIELD	Sikagard®-62	Sikalastic®-870 BT
Substrate humidity	N/A	Moist	Moist	Dry*	Dry*
Crack bridging ability	No	No	No	No, with reinforcement 0.3 – 0.5 mm	High
Resistance to soft water	Low	Low	Low	High	High
Application thickness	N/A	> 2 mm	> 2 mm	Variable	1.5 – 2 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®-107 Seal TH	Sikagard®-75 EpoCem® / Sikafloor®-81 EpoCem®	SikaCor®-950 F	Sikagard®-63 N / Sikagard®-62	Sikalastic®-870 BT
Substrate humidity	Moist	Moist	Moist	Dry*	Dry*
Crack bridging	0 to 0.5 mm	No	No	No, with reinforcement up to 0.5 mm	High
Waterproof	Yes	Yes	+/-	Yes	Yes
Resistance to sulfates (SO <sub>4</sub> <sup>2+</sup> )	Limited	Medium	High	High	High
Resistance to biogenic sulfuric acid (H <sub>2</sub> SO <sub>4</sub> )	No	Limited	Limited	Medium	Limited
UV Resistance	Yes	Yes	Limited	Limited***	Yes (Color will change)
Application thickness	> 2 mm	2 mm	Variable	Variable	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

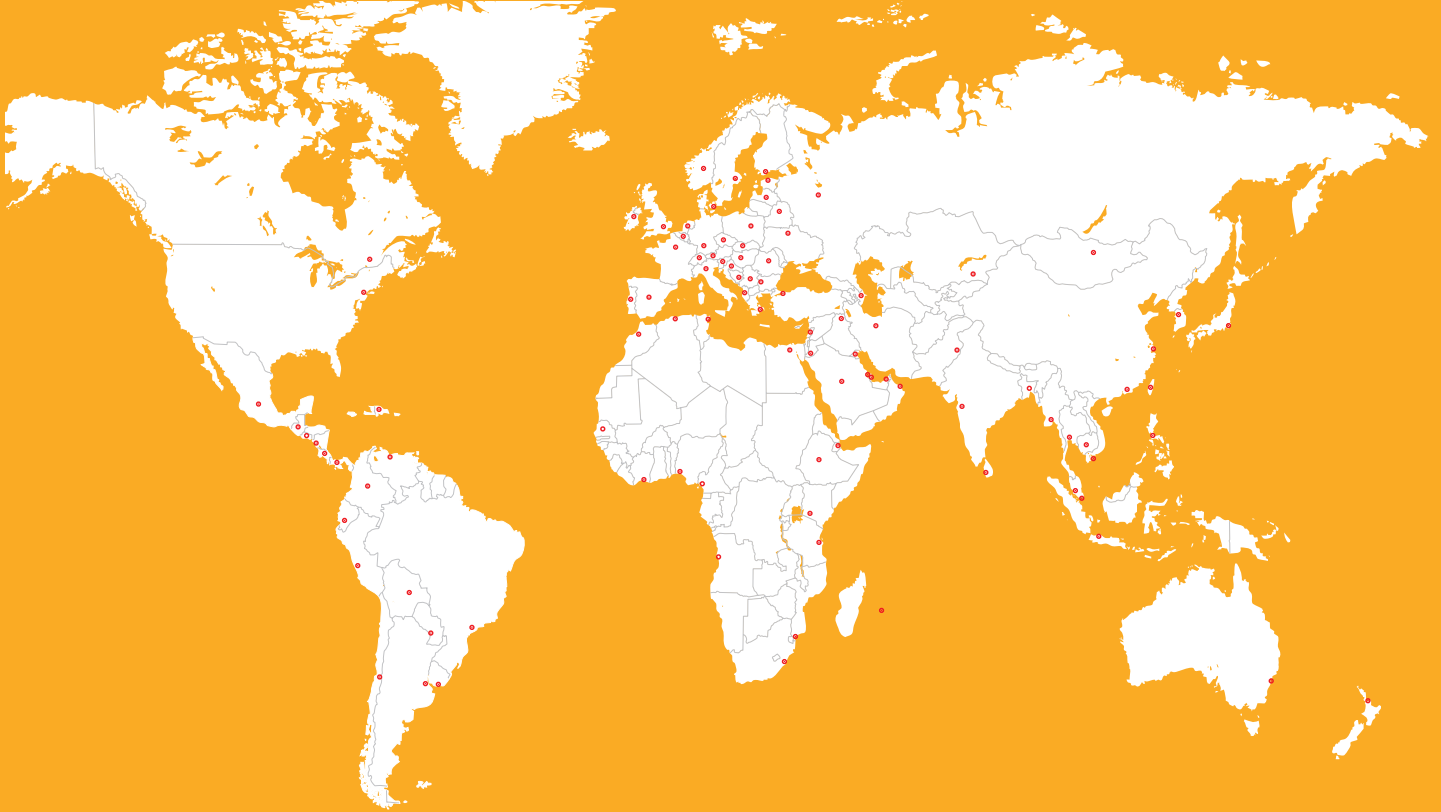
## SELECTION TABLE FOR PROTECTIVE COATINGS IN CONTACT WITH WASTE WATER

Use	WP Mortars	Protective Mortars	Multi-Layer Resins		Hot-Spray Membranes
	SikaTop®-107 Seal TH	Sikagard®-75 EpoCem® / Sikafloor®-81 EpoCem®	SikaCor®-950 F	Sikagard®-63 N / Sikagard®-62	Sikalastic®-870 BT
WWTP: Screening & Sedimentation Tanks (open)	Approved application	Approved application	Approved application	Approved application	Approved application
WWTP: Confined pits and elements	Not recommended	Not recommended	Not recommended	Not recommended	Not recommended
WWTP: Anaerobic Digester / Biogas Tank	Not recommended	Suitable as underlayment	Not recommended	Possible application	Not recommended
Industrial Waste Tanks* & Effluent Treatment Plants	Not recommended	Suitable as underlayment	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

# GLOBAL BUT LOCAL PARTNERSHIP



## WHO WE ARE

Sika (Thailand) Limited was established in 1989 as a 100% foreign owned company, a subsidiary of Sika AG-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.



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