



Rosedale Waste Water Treatment Plant, Rosedale, Auckland. Image: Watercare / Fulton Hogan.

WATER MANAGEMENT DRINKING AND WASTEWATER FACILITIES

SELECTION GUIDE

BUILDING TRUST



OVERVIEW

1 Potable Water Plant, Reservoir, Desalination Plant, Water Tower

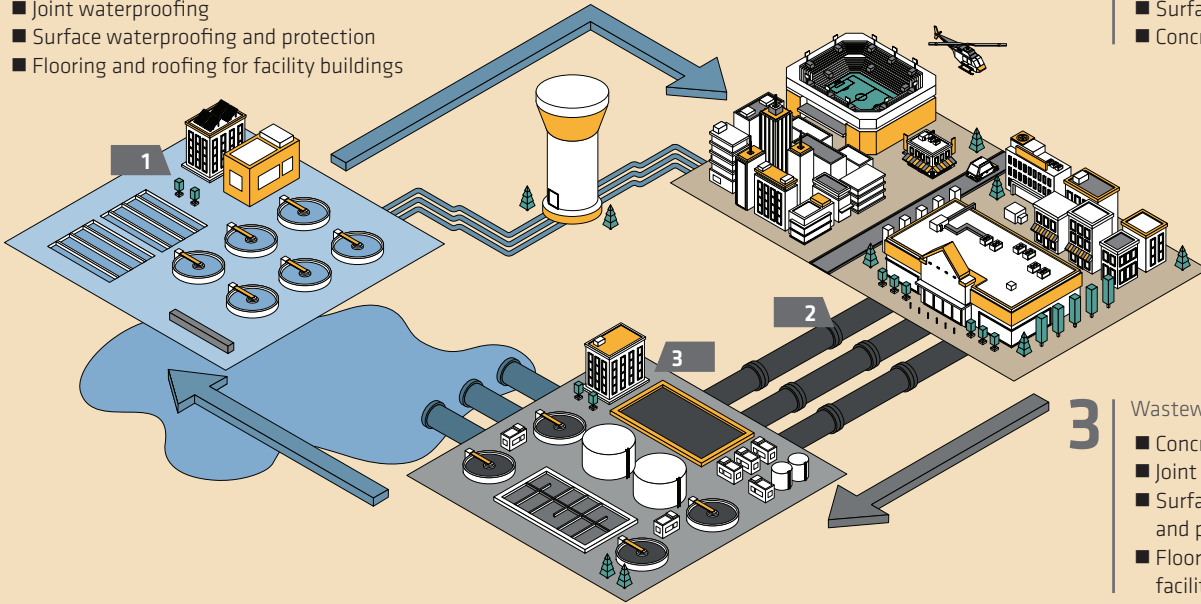
- Concrete construction
- Joint waterproofing
- Surface waterproofing and protection
- Flooring and roofing for facility buildings

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 - Cementitious	Rebar Protection/Bonding	Sika MonoTop®-910 N*	○	✓	○	✓
	Patch Repair	Sika MonoTop®-412 N*	○	✓	○	✓
	Repair/Recasting	Sika MonoTop®-438 R*	○	✓	○	✓
Concrete Repair - Epoxy	Rebar Protection/Bonding	Sikadur®-32	✓	✓	✓	✓
	Patch Repair	Sikadur® UA / Sikadur®-31/ Sikadur®-41	✓	✓	✓	✓
	Repair/Recasting/Grouting	Sikadur®-42	○	✓	✓	✓
Protective Mortars	Moisture barrier and protection	Sikagard®-720 EpoCem®	○	✓	✓	✓
	Reprofiling and levelling mortar	Sikagard®-720 EpoCem® / Sika MonoTop®-723 N	✓	✓	✓	✓
Waterproofing Mortars	Dual component WP Mortar	SikaTop®-107 Seal / Sikalastic®-152	✓	✗	✗	○
	Single component WP Mortar	Sikalastic®-1K	✓	✗	✗	○
Multi-Layer Epoxy Resin	Protective coating	Sikagard®-62	✓	✓	✗	✗
	Digester coating	Sikagard®-7000 CR	✗	○	✓	✓
	Reinforcement	Sika® Reemat Premium	✓	✓	✗	✓
Joint Waterproofing	Waterstops	Sika Waterbar® PVC, SikaSwell® A & S2	✓	✓	✓	✓
	Joint Tapes	Sikadur® Combiflex® SG	✓	✓	✓	✓
Sealants	Concrete Joint Sealant	Sikaflex® PRO-3 PURFORM	○	○	✗	✗
	Concrete & Metal Joint Sealant	Sikaflex®-403 Tank & Silo	✗	✓	✓	✓
Anchoring	Chemical Anchoring	Sika AnchorFix®-3030	✓	✓	✓	✓
Outer Tank Waterproofing	Sheet membranes	SikaProof® A+ / SikaProof® Bentonite	✓	✓	✗	✓
Repair Injection	PU flexible injection	Sika® Injection-201 CE / Sika® Injection-101 RC	✓	✓	✓	✓
	Epoxy rigid injection	Sikadur®-52 / Sikadur® Injectokit LV & TH	○	✓	✓	✓
Roofing	Membrane roofing - Liquid	SikaRoof® i-Cure System	✓	✓	✓	✓
	Membrane roofing - Sheet	Sika Sarnafil® System	✓	✓	✓	✓

✓ Approved application
 ○ Possible application - consult the Sika NZ Technical Dept.
 ✗ Not recommended
 *Used with protective coating

PERFORMANCE TABLE FOR PROTECTIVE COATINGS IN CONTACT WITH DRINKING WATER

Exposure	Crystalline	Waterproofing Mortars		Multi-Layer Resins	Sheet Membranes
	Sika® WT-200 P	SikaTop®-107 Seal	Sikalastic®-1K	Sikagard®-62	Sikaplan® WT-4220
Substrate humidity	N/A	Moist	Moist	Dry*	Wet
Crack bridging ability	No	No	> 0.5 mm	No, with reinforcement 0.3 - 0.5 mm	Very high
Resistance to soft water	Low	Low	Low	High	High
Application thickness	N/A	> 2 mm	> 2 mm	Variable	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	
	SikaTop® etc.	Sikagard®-720 EpoCem®	Sikagard®-62	Sikagard®-7000 CR
Substrate humidity	Moist	Moist	Dry*	Moist
Crack bridging	0 to 0.5 mm	No	No, with reinforcement up to 0.5 mm	No, with reinforcement up to 3.0 mm
Waterproof	Yes	Yes	Yes	Yes
Resistance to sulfates (SO ₄ ²⁺)	Limited	Medium	High	Very high
Resistance to biogenic sulfuric acid (H ₂ SO ₄)	No	Limited	Medium	Very high
UV Resistance	Yes	Yes	Limited***	Limited**
Application thickness	> 2 mm	2 mm	Variable	Variable

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

** May discolour, but does not affect performance

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

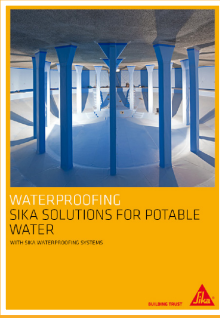
SELECTION TABLE FOR PROTECTIVE COATINGS IN CONTACT WITH WASTE WATER

Use	WP Mortars	Protective Mortars	Multi-Layer Resins	
	SikaTop® etc.	Sikagard®-720 EpoCem®	Sikagard®-62	Sikagard®-7000 CR
WWTP: Screening & Sedimentation Tanks (open)	○	Suitable as underlayment	✘	✓
WWTP: Confined pits and elements	✘	✘	✘	✓
WWTP: Anaerobic Digester / Biogas Tank	✘	Suitable as underlayment	✘	✓
Industrial Waste Tanks* & Effluent Treatment Plants	✘	Suitable as underlayment	Actual composition to be reviewed	✓

* For certain chemicals and for secondary containments, other coatings might be required, e.g. 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.

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