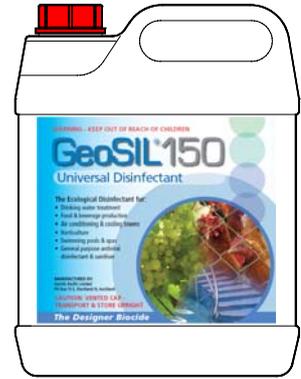


GeoSIL[®] 150

Water Tank Treatment



Instructions for Use

WATER TANK HYGIENE

Treatment of domestic tanks is made difficult because of the many variables, and the way they can change from day to day. **GeoSIL 150** is designed to simplify this process, and give you water that is clean and safe with the minimum of effort.

Contamination in a water tank can infect the plumbing system of a dwelling, and infections like Legionella can be passed on, not only through the drinking water, but through baths and showers as well. An effective, affordable method of treating tanks therefore relies a lot on common sense and the use of an effective treatment program.

Effective treatment therefore usually requires a number of steps to be followed to provide safe, fresh, healthy water, free of the dangerous inhabitants we wish to avoid. Treatment should also be carried out at regular intervals to ensure ongoing protection.

WHEN TO TREAT THE TANK

Depending on usage, **GeoSIL 150** has been shown to be effective in tanks for up to 28 days, or more, so it is recommended that a regular monthly dosing programme be followed for most domestic rainwater storage systems. In premises used as Lodges, Farmstays, Cafes, Camping grounds, Schools, etc, or anywhere visitors regularly use the water, is more important that a regular monthly treatment is applied, as these people will be the least tolerant of contaminants in the water.

At other times, dosing can be carried out as often as required, but the following are some of the times you should consider treatment;

- If unpleasant tastes or odours develop in the water
- If deposits of bird or animal waste are found on the roof or in guttering.
- If dead animals or birds are found on the roof, in gutters, or even in the tank.
- If the water tank has not been used for some period of time (Baches, trampers or musterers huts, boats, caravans etc.)
- If contaminated water has been allowed into the system.
- Anytime members of the household or visitors display medical problems.
- After every 28 days of normal use.
- **Anytime you think it needs it**

THREE STEP TREATMENT

1

Ensure that the roof is clean and that the gutters and down pipes are free of dirt and debris. Drain and flush any low points that can allow dirt and contamination to collect. Estimate the amount of water in the tank (*You should under estimate if in doubt, as a modest overdose of **GeoSIL 150** is not harmful*)

Select the dose rate from chart below, considering the condition of the tank & water, and the daily household usage.

2

Dose the tank by removing the hatch cover and spreading **GeoSIL 150** over as much of the surface of the water as possible. (*Please observe all safety handling instructions*)

If possible, mix the **GeoSIL 150** in the water using a paddle or run a hose back into the tank and leave to circulate. This will improve the effectiveness and reduce the time required to complete disinfection.

3

Allow contact time for the **GeoSIL 150** to mix and react. (*The water may be used within this time but disinfection may not be complete.*)

Regularly Dose with **GeoSIL150**

SELECTING THE DOSE RATE

The following are the recommendations for rural rainwater storage tanks operating under typical conditions and are based on common 20,000 litre concrete or polyethylene tanks that are maintained to recommended standards. Where water consumption is either higher, or lower than normal, this should be taken into account. Catchment areas such as roofs and gutters in dusty areas or with a high resident bird population will require more frequent treatment, and common sense should apply. In general, the water and the plumbing system will benefit from frequent treatment, and the lack of treatment is the only thing that should be avoided.

For smaller water storage tanks, such as in boats, caravans, mobile homes etc, **GeoSIL 150** can be safely used using the reduced dosages shown below.

For well maintained tanks under normal conditions, and tanks regularly treated, -- choose: 	NORMAL DOSE
For initial tank treatment, problem tanks, or for tanks not regularly dosed, -- choose: 	SHOCK DOSE

NOTE: Depending on the conditions in the tank and the water consumption, **GeoSIL 150** can remain active in the water for between 14 & 28 days.

Tank Water Qty (litres)	GeoSIL 150 <i>Dose in litres & (ml)</i>	
	Normal Dose	Shock Dose
1,000	100 (ml)	200 (ml)
5,000	500 (ml)	1.0
10,000	1.0	2.0
15,000	1.5	3.0
20,000	2.0	4.0
25,000 (5,500 Gal)	2.5	5.0
30,000 (6,500 Gal)	3.0	6.0
Contact Time	24 hrs	24 hrs

DO'S & DON'TS



Do -

- ◆ Inspect the roof, gutters, and tank regularly and clean thoroughly. Keep clean.
- ◆ Install leaf screens, & "first flush" diversion systems. Drain underground transfer pipes.
- ◆ Seal all entry points and secure covers.
- ◆ Install suitable "all-house" & drinking water filters.
- ◆ Ensure that the roofing material is suitable for the collection of drinking water.



Don't -

- ◆ Allow dirty or contaminated water into the tank.
- ◆ Use chlorine based products if organic contaminants are likely to be present in the water.
- ◆ Fill the tank with surface water that may contain soil nutrients, run-off, decayed animal or organic matter.
- ◆ Expect the tank to look after itself.

SAFETY PRECAUTIONS

Before use, please carefully read the safety instructions on the bottle.

Wear eye protection and rubber gloves when using. Wash hands after use.

MORE INFORMATION

Further information is available on request;

Refer also: www.geosil.co.nz

GeoSIL Pacific Ltd

PO Box 513, Shortland St, Auckland, 1140, New Zealand
www.geosil.co.nz