

Method statement for LP Sterox

Introductory Notes

Fernox LP Sterox is ideal for disinfecting stored water systems in domestic properties, small nursing homes, sheltered housing and small commercial properties. Disinfection should be carried out following periods of heavy use, for example, after morning baths/showers. These instructions assume normal water use in a building.

The time to achieve complete water system disinfection will be shorter if water use is minimised during the time **LP Sterox** is left in the system. It is important that abnormal uses of water, like watering the garden, or washing vehicles are avoided during the disinfection process.

Easy to use

Provided **LP Sterox** is dosed at the recommended level, the treated water is safe enough to drink. Once disinfection is complete, there is no need to flush out or neutralise the system.

How to calculate the amount of LP Sterox required

1. Work out how much water there is in the system you are about to disinfect. You can generally get a reasonable idea by working out the volume of the cold water storage tank (sometimes this is printed on the tank label.) The volume in litres can be calculated by multiplying (in metric) the length x height x width of the tank. If you have a hot water storage cylinder (also called a calorifier) as well as any pipe work, the tank volume should be multiplied x 1.3. If there is no calorifier, multiply by 1.1.
2. So, if you have a property with a standard 50 gallon (220 litre tank) and a calorifier the system volume is 286 litres.
3. To disinfect the system, you need to add sufficient **LP Sterox** to obtain 100 ppm hydrogen peroxide (approximately) in the system. This is easily checked using **Fernox LP Sterox** indicator strips. Consult the table below to check the amount of **LP Sterox** required:

For every cubic metre of system volume (calculated above) add 2.78 litre of LP Sterox.

1 cubic metre add 2.78 litres
2 cubic metre add 5.56 litres
3 cubic metre add 8.34 litres
4 cubic metre add 11.12 litres
5 cubic metre add 13.90 litres
6 cubic metre add 16.68 litres

Instructions for use

1. If necessary, clean the tank first and fill with fresh water.
2. Add the required amount of **LP Sterox** to the tank. You now need to circulate the chemical throughout the whole system.
3. Start by turning on the hot and cold outlets which are furthest away from the water storage tank.
4. After the water has run for one minute check the water at each outlet with an **LP Sterox Test Strip**. If the colour indicates that the hydrogen peroxide level is more than 100 ppm and less than 125 ppm, turn off the outlet.
5. Go to all the other outlets in the system and repeat the procedure in point 4 above.
NB. (i) If the level at any outlet is less than 100ppm, add further **LP Sterox** to the water storage tank and repeat procedure in point 4 until the level detected at each outlet is more than 100ppm.
(ii) If the level is greater than 125ppm, continue running water from the outlets until the level falls below 125ppm.
6. When all outlets have been tested and found to contain the correct level of chemical the system should be left and can be routinely used. Assuming normal water use the system should be completely disinfected within 24 hours.