

## Ultra-Concentrated Fi-Clor Phosphate Remover

The ideal solution for pools with recurring algae problems.

- ✓ Ultra-concentrated formula - low unit dose (only 75ml required to remove 100ppb of phosphate from 50m<sup>3</sup> (11,000 gals) of pool water).
- ✓ Reduces algicide consumption.
- ✓ Suitable for all types of pool.
- ✓ Compatible with all types of sanitiser.
- ✓ Compact 1 litre bottle with handy, integral, graduated measuring cap.
- ✓ Easy to use test kit.



**Available from your Fi-Clor stockist**

# DOES YOUR POOL KEEP GOING GREEN?

**THEN YOU MAY HAVE HIGH PHOSPHATE LEVELS!**



A guide for swimming pools with  
recurring algae problems



Arch Water Products, Wheldon Road, Castleford, West Yorkshire, WF10 2JT  
Tel:01977 714100 [www.fi-clor.co.uk](http://www.fi-clor.co.uk)



# Fi-Clor Phosphate Remover

# Testing and using Fi-Clor Phosphate Remover

## What are phosphates?

Phosphates are chemical compounds containing phosphorus and oxygen. They are essential nutrients needed to support life and form part of the process used to fuel cell growth and maintenance.

Plants use photosynthesis to convert and store energy from sunlight using complex biochemical reactions involving phosphates.

Phosphates are therefore a major nutrient source for algae growth in swimming pool water, supporting their development even in the presence of chlorine. Removing them will dramatically reduce the potential for algae growth.

## Where do phosphates come from?

Phosphate salts are retrieved from naturally occurring minerals, which are mined, refined, and purified for use in many applications. They can enter the swimming pool via mains top-up water, plant waste, urine, agricultural and garden run-off following heavy rain and even airborne dust. As time passes these phosphates gradually accumulate in the pool water, especially when there is a lack of replacement with fresh water. Even this is not a complete remedy as mains water contains a certain level of phosphate, which in some cases may be as much as 1,000ppb.

## When is it a problem?

Algae growth accelerates even in the presence of chlorine at phosphate levels in the region of 300ppb. This is equivalent to having 30g of phosphate in a pool of 100m<sup>3</sup> capacity. When measuring phosphates in swimming pool water we are dealing with relatively low concentrations and therefore use parts per billion (ppb) as opposed to parts per million (ppm) [100ppb = 0.1 ppm].

To eliminate the problem and maintain the maximum efficiency of chlorine, it is generally considered that the concentration of phosphate should be maintained at less than 100ppb, which may be achieved by using ultra concentrated **Fi-Clor Phosphate Remover**.

## How is phosphate tested?

It is essential to measure the amount of phosphate in your pool water to allow its control. This can easily be performed using an Arch Phosphate Test Kit which contains enough reagent strips to carry out 10 pool tests. Full instructions are included with each kit.



## Using Fi-Clor Phosphate Remover

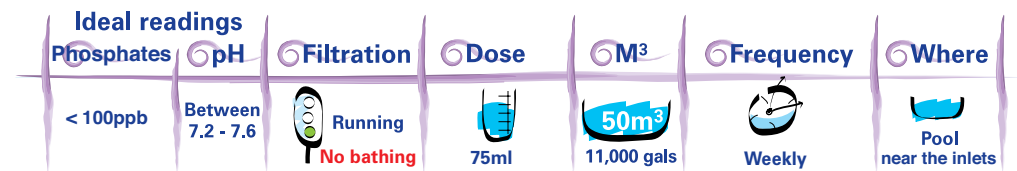
If the pool water already contains algae, remove it by using a standard shock product such as **Fi-Clor Superfast Granules**. When there is no more algae remaining, follow the treatment steps below.

### Initial treatment

1. First measure the phosphate level (ppb) in the water using Arch Phosphate Test Strips.
2. 75ml will remove 100ppb of phosphate in 50m<sup>3</sup> (11,000 gals).
3. Quantity of product required (ml) = 0.015 x volume of pool (m<sup>3</sup>) x phosphate level (ppb).
4. Backwash the filter.
5. With the filter running, add the product directly to the pool at the inlets.
6. Run filtration for at least 24 hrs, check filter pressure and if needed backwash the filter again.
7. After 48 hrs, measure the phosphate level again using Arch Phosphate Test Strips and if necessary add further phosphate remover following the instructions above.

### Regular treatment

Measure the phosphate level in the pool once a month except when not in use in the winter and dose as follows:



If you have any doubts over the testing of phosphate levels in your pool, please contact your nearest Fi-Clor stockist.