



# SCALE

Calcium carbonate deposits (scale) on pool surfaces have an unattractive rough feel. If scale is present in the pool circulation system it can cause a reduction in flow and heater efficiency.

## Probable cause

- Unbalanced water

Unbalanced water can be due to high pH and/or high total alkalinity. These conditions will create a scale-forming tendency. High total alkalinity in particular will make it difficult to adjust the pH and can also be a source of carbonates. Under certain conditions these will deposit on pool surfaces and in the circulation system as calcium carbonate (scale). For further information on high pH and high alkalinity, please refer to the relevant Troubleshooting Guides.

It is essential that the pool water is tested on a regular basis and the recommended key parameters are maintained. For pH this is 7.2 - 7.6 and total alkalinity is 80 - 150mg/l (ppm).

It is also advisable to regularly check both the pH and total alkalinity of the mains make up water when either refilling the pool or adding a substantial quantity of fresh water. Prompt action may then be taken to make the necessary corrections in order to prevent the pool water going out of balance.

SANITISER



SHOCK



WATER BALANCE



PREVENTION OR CURE



## What you may need...

**Fi-Clor pH & Alkalinity Reducer 7kg**  
To lower high alkalinity and high pH



**Fi-Clor Stain & Scale Remover 1Ltr**

To remove calcium carbonate scale

- Effective on all types of pool surface (tile, vinyl)
- No unpleasant odour during application
- Excellent detergent and cleaning properties
- Not harmful to the environment
- Long shelf life



**Fi-Clor Stain & Scale Inhibitor 2kg**  
Minimises staining and scale

- Keeps minerals in soluble form
- Phosphate-free. Helps minimise risk of algae (+ environmental benefits)
- Non-foaming
- Non-toxic when diluted



## Action to be taken

**Before adding any chemicals to your pool, ensure nobody is swimming. Keep the circulation running to ensure adequate dispersion of the chemicals**

### To lower the total alkalinity

- If pH and total alkalinity both need correction, treat the total alkalinity first.
- Carry out a total alkalinity test and if the reading is above 150mg/l (ppm), the level will need to be lowered. If you are unable to test for total alkalinity, take a fresh sample of pool water to your approved Fi-Clor dealer who will carry out the test and advise on any necessary treatment.
- To lower the total alkalinity, dose **Fi-Clor pH & Alkalinity Reducer** at a rate of 1kg per 50m<sup>3</sup> (11,000 gallons). This dose is designed to reduce the total alkalinity by approximately 10 - 20mg/l and should be repeated as necessary on a daily basis until the total alkalinity is below 150mg/l (ppm). With the circulation running, pour in a small area at the deep end of the pool, avoiding the skimmers.
- Re-test the water after 24 hours and if the total alkalinity is still high, repeat the dose varying the location slightly but avoiding the skimmers.
- Please note that the acid dosing technique is important here. To have the desired effect of reducing the total alkalinity rather than the pH, the acid must be poured into a small area of the pool and not widely dispersed. The aim is to create localised conditions of low pH such that the acidity will react with the bicarbonates which make up the bulk of the total alkalinity at normal swimming pool pH values.

### To lower the pH

- To lower the pH, dose **Fi-Clor pH & Alkalinity Reducer** at a rate of 500g per 50m<sup>3</sup> (11,000 gallons). With the circulation running, distribute around the pool, avoiding the skimmers. Do not dose it in one spot otherwise some alkalinity may be destroyed.
- Re-test the water after 24 hours and if the pH is still high, repeat the dose.

### To remove scale

- Scale on the swimming pool surrounds and surfaces above the water line may be removed with **Fi-Clor Stain & Scale Remover**.
- **Fi-Clor Stain & Scale Remover** may be used neat or diluted at a rate of 1 litre to 30 litres of water depending on the severity of the stain to be removed.
- Follow the pack label instructions carefully.

**PRECAUTIONS: Wear gloves and protective eyewear when using Fi-Clor Stain & Scale Remover. The product contains a mixture of acids and is corrosive.**