

# hth here to help pool problem solver

## Green Water



**problem**

- No chlorine reading when testing
- Low chlorine reading



**solution**

- Adjust pH as needed
- Shock treat with **hth® super shock treatment**



No/Low Chlorine



**problem**

- Green algae on walls and floor that can be removed by brushing
- Pool walls feel slimy



Green Algae



**solution**

- Adjust pH as needed
- Add **hth® algae prevention product hth® super algae guard 60**
- Brush walls to remove algae



**problem**

- Pool water is bright green
- High chlorine level
- High stabilizer level



Overstabilized



**solution**

- There are no products that reduce stabilizer levels
- Drain a portion of pool water by placing multiport valve on WASTE
- Top up with fresh water
- Repeat until stabilizer level is within the ideal range of <50ppm



**problem**

- Water turns green or brown when chlorine is added. Indicates metals in the water.



Dissolved Metals



**solution**

- Adjust pH as needed
- Add **hth® metal & stain defense**

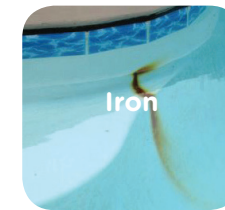


## Stains



**problem**

- Brown/yellow marks on pool lining
- Won't brush off



Iron



**solution**

- Use **hth® metal & stain defense**

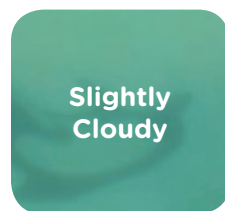


## Cloudy Water



**problem**

- Water is cloudy but you can see the bottom of the pool



Slightly Cloudy



**solution**

- Clean filter with **hth® filter cleaner**
- Use **hth® super clarifier** to coagulate small particles. Check filter operation.



**problem**

- High pH or buildup of organic contaminants makes the water so cloudy you can't see the bottom of the pool



Very Cloudy



**solution(s)**

- Test pH & total alkalinity
- Add **hth® pH decreaser** as directed. Adjust as required.
- OR**
- Adjust pH as needed
- Shock treat with **hth® super shock treatment**

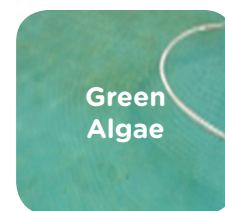


## Algae



**problem**

- Green algae on walls and floor that can be removed by brushing
- Pool walls feel slimy



Green Algae



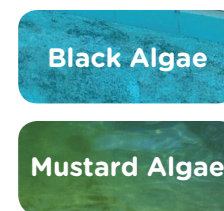
**solution**

- Adjust pH as needed
- Add **hth® algae prevention product hth® super algae guard 60**
- Brush walls to remove algae



**problem**

- Slimy black or yellow patches on walls
- Patches form a protective layer making removal difficult



Black Algae

Mustard Algae



**solution**

- Adjust pH as needed
- Add **hth® algae prevention product hth® super algae guard 60**
- Brush walls to remove algae



**problem**

- Black marks on pool lining
- Won't brush off



Copper



**solution**

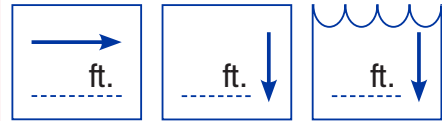
- Use **hth® metal & stain defense**



## Getting Started

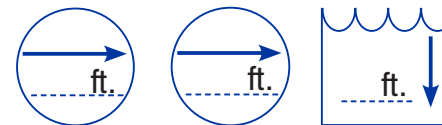
### Calculating Pool Volume

#### Rectangular Pools



$$\text{Length} \times \text{Width} \times \text{Avg. Depth} \times 7.5 = \text{gallons}$$

#### Round Pools



$$\text{Diameter} \times \text{Diameter} \times \text{Avg. Depth} \times 5.9 = \text{gallons}$$

### Basic Pool Care

To prevent corrosion or scale deposits, it is important to keep your pool water balanced. Test pool water balance once a week with a pool test kit.

Total Alkalinity (TA)	60-120ppm
pH	7.2-7.8
Chlorine	1 - 4ppm
Stabilizer	20-50ppm
Total Hardness	200ppm-400ppm

## Pool Opening

### Day 1

- Test the water you will be using to fill your pool with a pool test kit
- Check that your pool filter is clean. If not, use **hth® filter cleaner**.
- Begin filling the pool. After the pool is filled with several inches of water, add **hth® super clarifier** to help the filter clear the water of small particles. This product will prevent minerals in the water from staining or damaging pool surfaces.
- Fill the pool to the middle of the skimmer or the level recommended by the manufacturer
- Once filled, start the pump and filtration equipment
- Run the pool filter overnight or 24 hours if possible
- With the filter running, vacuum and remove any debris from the pool

### Day 2

- Adjust the total alkalinity level to within the range of 60 to 120 parts per million (ppm) with **hth® alkalinity increaser**
- Once the total alkalinity is in the ideal range, test the pH levels of the pool water with a pool test kit. Adjust if necessary.
- Add **hth® super shock treatment** to destroy contaminants
- Next, sanitize the water by adding an **hth® sanitizer** until you reach 1-4 ppm. Allow the water to circulate overnight.

### Day 3

- Retest sanitizer level with a pool test kit
- Prevent rapid loss of chlorine due to sunlight by adding **hth® stabilizer**

#### Note:

*Not applicable for bromine pools  
Cyanuric acid (ingredient in hth® stabilizer) does not stabilize bromine.*

## Pool Closing

### 1. Prepare the equipment

- Brush pool walls and floor. Vacuum any debris from pool floor.
- Clean the filter with **hth® filter cleaner**

### 2. Treat the water

- Add **hth® super shock treatment** to destroy organic contaminants
- Add **hth® ultimate algae guard**, following "Closing Your Pool" directions, to prevent algae growth throughout the winter
- Add **hth® metal & stain defense**, following initial treatment dose directions. Allow water to circulate 12-24 hours.
- Lower the water if you are in an area where the water must be lowered due to freezing conditions
- Drain all water from pipes, pumps, heaters, filters and other pool equipment according to the manufacturer's directions

## Don't forget:

- Always read product label directions prior to using and use only as directed
- Always add the chemical to water and not water to the chemical
- Never add chemicals to the water when people are in the pool
- Never mix one product with another prior to adding it to the water
- Always store pool products in a cool, dry location and out of direct sunlight

## Weekly Care

### Friday

- Test the pH, total alkalinity and sanitizer levels with a pool test kit. Adjust levels if necessary.
- Add **hth® super algae guard 60** per label directions to prevent algae formation
- Add **hth® metal & stain defense** to prevent stains and scale

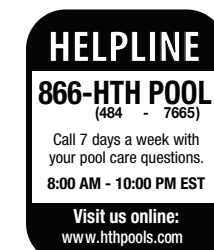
### Sunday

- Vacuum the pool and clean out the skimmer basket
- Wipe off the waterline with a soft towel. Use surface cleaner for heavy buildup at the waterline.
- Add **hth® super shock treatment** to rid water of contaminants
- Check the filter's operation. Refer to the filter manufacturer's directions regarding when to backwash or clean the filter. Use **hth® filter cleaner** each time the sand filter is backwashed.

### Wednesday

- Test the pH, total alkalinity and sanitizer levels with a pool test kit. Adjust levels if necessary.

For further assistance call:



In case of emergency call:  
1-800-654-6911



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