

# Don't patch your liner, P.A.T.C.H. your water!



Your pool's vinyl liner may be the most valuable component of your pool – and it's likely to be the least maintained. The easiest way to maintain the health and longevity of your liner is by maintaining proper water balance.

## WHAT IS WATER BALANCE?

Water balance is the subtle chemical equilibrium that makes recreational pool water possible. Without proper water balance, the natural chemical forces within your pool's water can literally attack the molecular bonds that hold your lining together and attached to your pool walls, leaving it faded, brittle and broken.

Not a chemical engineer?

Don't worry, remember the simple acronym:

**P.A.T.C.H.** – **P**(pH) **A**T(Alkalinity Total) **C**H(Calcium Hardness)  
for great pool water.

**pH** is the most important factor in water balance. The pH is a measurement of the relative acid or base of the water. Low pH can cause corrosion; attacking pool surfaces and equipment. High pH can cause scale build-up leaving unsightly deposits. Typical pH ranges in pools are 7.4-7.6. Test the pH at least twice a week. Daily testing recommended.

**Alkalinity Total** is a measure of the alkaline materials dissolved in the water, which helps keep the pH at the proper level. The recommended Total Alkalinity range for vinyl pools 80-120 ppm. Test the Total Alkalinity twice a month.

**Calcium Hardness** is the amount of dissolved minerals in the water. Calcium Hardness levels for vinyl pools is 200-400 ppm. Low Calcium Hardness causes equipment or liner corrosion. High Calcium Hardness causes cloudy water and scaling. Test Calcium Hardness levels monthly.

See reverse side to prevent these common liner problems.

Now that you understand the basics of water balance, **Haviland Durachlor** has created **Activator** – a product to take the worry out of maintaining water balance.



# Haviland Durachlor Activator will make your pool water look and feel great.



## FEATURES & BENEFITS

The patented EPA-registered formula of Haviland Durachlor Activator provides numerous benefits, but here are the keys to extending the life of your pool liner.

### WATER BALANCE

Haviland Durachlor Activator stabilizes and buffers pH, Alkalinity Total and Calcium Hardness. It helps your water balance stay in balance.

### IMPROVED SANITIZER EFFICIENCY

Haviland Durachlor Activator makes your chlorine work better – up to 50% better! Chlorine attacks liners (and equipment), Activator allows you to add less – reducing its effect to your liner...and reducing the effect to your wallet!

### ALGAE PREVENTION

Haviland Durachlor Activator prevents algae growth which means your pool liner will stay cleaner and your filter will work easier. Pool brushing is still important, but you may be able to extend the time between brushing. Activator also will dramatically reduce water line stains, i.e. “bath tub rings”

## APPLICATION

Clean filter as needed and adjust water balance

Apply product when pool is not in use and with pump running

DO NOT add product to the skimmer. Add directly to the pool by broadcasting product over the surface of the water.

To maintain all the benefits of Haviland Durachlor Activator, a residual should be maintained between 30-50 ppm.

Basic introduction of Haviland Durachlor Activator should be 2 pounds for every 1,000 gallons of water. For best and long lasting results add 3.4 pounds for every 1,000 gallons of water.

Calculate total amount needed to be added to the pool. Add ½ the total dose then adjust pH afterwards. Apply the remaining ½ dose at least 8 hours after the first application.

Brush or vacuum any un-dissolved material off the surface bottom.

Activator Dosage Chart					
Number of pounds to raise Activator level by:					
Gallons	10 ppm	20 ppm	30 ppm	40 ppm	50ppm
5,000	3.5 lbs	7 lbs	10 lbs	14 lbs	17 lbs
10,000	7 lbs	14 lbs	20 lbs	27 lbs	34 lbs
20,000	14 lbs	28 lbs	40 lbs	54 lbs	68 lbs
25,000	17 lbs	34 lbs	50 lbs	67 lbs	84 lbs
50,000	34 lbs	68 lbs	100 lbs	134 lbs	168 lbs

AVAILABLE SIZES | 10 LB. | 20 LB. | 45 LB.

Activator pH Adjustment		
If you add this much Activator to a pool, you will need to reduce the pH by adding an appropriate amount of pH Down or Muriatic Acid:		
Activator	pH Down	Muriatic Acid
1 lbs	0.75 lbs	10 oz.
10 lbs	7.5 lbs	.75 gal.
20 lbs	15 lbs	1.5 gal.
30 lbs	21.5 lbs	2.5 gal.
50 lbs	37.5 lbs	4 gal.



## HAVILAND DURACHLOR ACTIVATOR PLUS

Looking for several of the same benefits of Activator without having to decrease the pH afterwards? Activator Plus can do that.

NOTE: Activator Plus is NOT registered as an algacide by the EPA.



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