



3 Simple Steps to Successful Stain

FOR BEST RESULTS, THE WATER MUST BE AT LEAST 65°F

STEP 1: The first important step is to balance your pool water within stain identification and removal parameters. Although your pool water balance may be “perfect” for normal daily operating conditions, it may need some adjustment for successful stain identification and removal to occur. Balance your water to the following parameters (as listed in the table below) **before** proceeding to the Jack’s Magic stain identification or stain removal treatments. For best results, use a Jack’s Magic Professional Test Kit™.

BALANCE PARAMETERS for STAIN TREATMENT (IDENTIFICATION and REMOVAL)	
Pool Water Item:	Balance Parameter(s):
Free & Total Available Chlorine (FAC&TAC) *NOTE 1	1–3 parts per million (ppm)
pH	7.0-7.4
Total Alkalinity (TA)	80 ppm or below
Calcium Hardness (CH)	200–400 ppm
Cyanuric Acid (Stabilizer) (CYA)	Below 70 ppm *NOTE 2
Total Dissolved Solids (TDS)	Below 1200 ppm (except salt systems)*NOTE 3

NOTE 1: If bromine sanitizer system: 2-6ppm (of bromine). If biguanide sanitizer system: 30-50ppm (of biguanide).
 NOTE 2: If CYA level is higher than recommended balance parameters, dilute level by draining water from the pool and adding fresh water. Be sure to check reading again; failure to do so may result in an ineffective stain identification or removal. PLEASE NOTE: CYA is not applicable in bromine or biguanide pools.
 NOTE 3: If TDS level is higher than recommended balance parameters, dilute level by draining water from the pool and adding fresh water. Be sure to check reading again; failure to do so may result in an ineffective stain id or removal.
 NOTE 4: If the water temperature is below 65° (F) **do not** attempt to treat the pool.

STEP 2: After balancing your pool water within the above parameters, use a Jack’s Magic Stain IDentification (ID) Kit™ (according to directions) to specifically determine which of the following treatments in STEP 3 will best remove your swimming pool stain. A Jack’s Magic Stain ID Kit takes the guesswork out of swimming pool stain removal!

FOR BEST RESULTS: Use several ounces of a Jack’s Magic sequestrant (the blue stuff®, the purple stuff® or the magenta stuff™), or some muriatic acid, in the area that you will be performing the “stain ID” test.

STEP 3: Follow directions for the stain removal treatment (see back for stain removal treatments) identified as the best for your swimming pool stain. Here’s some stain removal tips to remember:

- If you get no apparent reaction when doing any of the (4) Jack’s Magic Stain ID Kit treatments, try using one of our sequestrants for six weeks and then trying the treatments again.
- To prevent any future staining, use a Jack’s Magic sequestrant as a weekly preventative maintenance product. Maintain levels of 10-12ppm by using our **sequest test kit™** for the **blue stuff®** and the **purple stuff®** or add 6-8oz. per 15,000 gallons of water of the **magenta stuff™**.
- To maintain proper water balance, use an accurate and reliable test kit. Jack’s Magic has found the single tablet method to be an extremely accurate and stable method for testing pool and spa water. Tablets in the **Jack’s Magic Professional Test Kit™** are specially formulated and buffered for the warmer temperatures associated with swimming pools and spas.
- If you have difficulty getting a free chlorine reading after doing a **STAIN SOLUTION #2 Treatment**, test the Total Available Chlorine. Assume this reading is the true Free Available Chlorine reading. **STAIN SOLUTION #2** often causes an error in the DPD #1 test; this reaction may last up to a month while **STAIN SOLUTION #2** is still in the water.

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Jack's Magic® Stain Removal Treatments

STAIN SOLUTION #1 (the iron, cobalt & spot etching stuff™) TREATMENT:

Treatment Prerequisites for STAIN SOLUTION #1:

- Properly balanced water (for stain treatment; SEE STEP 1). Note: In this treatment pH must be 7.2 or lower.
 - Positive reaction for this treatment with Jack's Magic Stain ID Kit.
 - Turn pool pump on and chemical feeder (i.e. chlorinator, brominator, salt generator, etc.) off.
 - **PLEASE NOTE: This treatment has a special Total Available Chlorine (TAC) requirement (less than 1 ppm).**
1. Lower (total) chlorine level to less than 1 ppm. [TIP: Jack's Magic **after shock™** will accomplish this quickly; add (directly through skimmer) 1 oz. of **after shock™** per 7,500 gallons of water to lower chlorine level by 1 ppm; IMPORTANT: Do not overdose].
 2. Add a Jack's Magic **the blue stuff®** at a rate of 1 qt. per 10,000 gallons of water [TIP: With salt (chlorine generator) systems or high TDS (over 1,200 ppm), use **the purple stuff®** in place of **the blue stuff®**].
 3. Add **STAIN SOLUTION #1** at a rate of 2 lbs. per 12,000 gallons of water; broadcast over stained area.
 4. Circulate the pool on high speed for 24 hours. [TIP: use Jack's Magic **the filter fiber stuff™** to enhance filtration in a sand or cartridge system for a more efficient removal].
 5. Clean filter and 24-48 hours later, SLOWLY begin re-chlorination (or other sanitizer) and rebalancing of Total Alkalinity (use sodium bicarbonate only at a rate of no more than 4 pounds per 10,000 gallons per day).
 6. IMPORTANT: DO NOT SHOCK for at least 1 week after removal is complete. May cause re-staining of any metals/minerals that are still in solution.
 7. Add 12 oz. of **the blue stuff®** or **the purple stuff®** per 10,000 gallons weekly for a minimum of three weeks after treatment.

STAIN SOLUTION #2 (the copper & scale stuff™) TREATMENT:

IMPORTANT: Stain Solution #2 is an acidic product and can damage pool finish if left standing for any length of time. Be sure to brush away within a few seconds (30 seconds at most) of application.

Treatment Prerequisites for STAIN SOLUTION #2 (Please Note: These are also pre-requisites for O₂ safe shock™ & STAIN SOLUTION #2 Treatment and Iron Scale Treatment).

- Isolate heaters, heat pumps, ionizers and/or mineral systems from circulation system. If this cannot be done, **DO NOT** treat pool with STAIN SOLUTION #2 (call Jack's Magic Technical Support for assistance).
 - Properly balanced water (for stain treatment).
 - This treatment recommended for pools up to 35,000 gallons.
 - Positive reaction for this treatment with Jack's Magic Stain ID Kit.
 - Turn pool pump on.
1. Add ½ gallon of muriatic acid per 10,000 gallons of water.
 2. Add a Jack's Magic **the blue stuff®** at a rate of 1 qt. per 10,000 gallons of water. [TIP: With salt (chlorine generator) systems or high TDS (over 1,200ppm), use **the purple stuff®** in place of **the blue stuff®**].
 3. Add 10 lbs. of **STAIN SOLUTION #2** per 10,000 gallons of water, brushing any undissolved product immediately as it reaches the bottom.
 4. Circulate pool continuously on high speed for the duration of the treatment. [TIP: Use Jack's Magic **the filter fiber stuff™** to enhance filtration in a sand or cartridge system for a more efficient removal].
 5. Once a week during treatment, clean filter, add chlorine (or other sanitizer) as required. [TIP: This treatment can produce false chlorine readings for 3-4 weeks; use the total chlorine reading during this time.]
 6. Add 12 oz. of **the blue stuff®** or **the purple stuff®** per 10,000 gallons weekly during treatment.
 7. After stains are removed (may take several weeks), slowly (no more than 4 lbs. every 8 hours) begin re-balancing total alkalinity (use sodium bicarbonate only).

O₂ safe shock™ & STAIN SOLUTION #2™ TREATMENT:

(See Treatment Prerequisites for STAIN SOLUTION #2)

1. Add **STAIN SOLUTION #3 O₂ safe shock™** at a rate of 5 lbs. per 10,000 gallons of water.
2. Add ½ gallon of muriatic acid per 10,000 gallons of water.
3. Add a Jack's Magic **the blue stuff®** at a rate of 1 quart per 10,000 gallons of pool water. [TIP: With salt (chlorine generator) systems or high TDS (over 1,200ppm), use **the purple stuff®** in place of **the blue stuff®**].
4. Follow steps 3-4 of **STAIN SOLUTION #2** treatment, as explained above.
5. Once a week during treatment, clean the filter and add chlorine or other sanitizer as required. [TIP: This treatment can produce false free chlorine readings for 3-4 weeks; use the total chlorine reading during this time.]
6. Add 12 oz. of **the blue stuff®** or **the purple stuff®** per 10,000 gallons weekly during treatment.
7. After the stains are completely removed (this may take several weeks), slowly begin re-balancing Total Alkalinity using sodium bicarbonate only. Add no more than 4 pounds per 10,000 gallons per day.

IRON SCALE TREATMENT:

(See Treatment Prerequisites for STAIN SOLUTION #2)

1. Follow Steps 1-4 of the **STAIN SOLUTION #2** treatment, as explained above.
2. After 48 hours, perform another stain identification using **STAIN SOLUTION #1** (apply approximately 1 tsp. over stained area; let sit for only a few seconds, then brush away). If stains are removed, proceed to the next step. If stains are still present, wait another 48 hours and repeat step 2 of this treatment.
3. Lower free and total chlorine below 1 ppm, and then add 2 pounds of **STAIN SOLUTION #1** per 12,000 gallons of water. [TIP: use Jack's Magic **after shock** to quickly reduce chlorine if above 1 ppm. Add 1 ounce of **after shock** directly through the skimmer per 7,500 gallons of water to reduce chlorine 1 ppm. Be careful not to overdose!]
4. Circulate for 24 hours then clean/backwash filter. Wait an additional 24-48 hours before beginning to slowly re-chlorinate. IMPORTANT: DO NOT SHOCK for at least one week after treatment; May cause re-staining metals/minerals that are still in solution. [TIP: Use Jack's Magic **the filter fiber stuff™** to increase filtration in a sand or cartridge filter for a more efficient removal.]
5. To re-balance total alkalinity use sodium bicarbonate only at a rate of no more than 4 pounds per 10,000 gallons per day.
6. Add 12 oz. of **the blue stuff®** or **the purple stuff®** per 10,000 gallons weekly for a minimum of 3 weeks after treatment.