



INFORMATION RELEASE

Synergy Technology for Pool, Spa, & Fountains

Scaletec Plus®

Product technical guidelines for calcium descaling and stain removal from swimming pool surfaces, tile, and equipment to achieve satisfactory results.



For the Service Professional:

**Descaling Overview,
Guidelines,
Cleanup Tips,
And
Question & Answers**

Scaletec Plus guidelines were developed to help pool owners understand more effectively how to remove white calcium waterline deposits and mineral scale buildup from swimming pools surfaces, decorative tile, and all pool equipment. Unsightly and potentially damaging scale buildup on pool surfaces occurs over time primarily as a result of evaporation of water minerals and heat. The development of Scaletec Plus® now allows pool owners an easier, safer and much more cost effective way to remove deposits along the waterline and throughout the pool without the use of potentially damaging acid washes.

There are basically two types of calcium scale deposits that build on pool surfaces. The most common type is *calcium carbonate* – a white, crusty deposit (6 months to several years old) that readily bubbles or foams when a few drops of muriatic pool acid is applied. These types of deposits can be readily removed by pool acid washing, laborious scrubbing or by using a descaler product known as Scaletec Plus®.

The other type of scale is typically an older, harder, layered calcium silicate combination. This is usually white-grayish colored deposit (typically 5 years or older) that reacts to muriatic acid with very slow or little bubbling. This kind of deposit is more difficult to remove and Scaletec Plus® is not very effective in dissolving away this harden layered deposit within a month. Only harsh hydrofluoric acid (dangerous to handle) or mechanical cleaning methods will remove this hard scale quickly. However, Scaletec Plus has proven effective in many pools by slowly removing these types of deposits when a monthly maintenance program is continued for 3 to 6 months after the initial descaling treatment.

Descaling Guidelines . . . Best steps to success!

1. Perform "quick spot check" to determine if deposit is primarily calcium based. Pour a capful pool acid slowly over scaled area (wear safety glasses). If the deposit bubbles or foams aggressively, then proceed to step #2 as Scaletec Plus® should descale pool surfaces very effectively.

Note: Low amount of bubbling and a grayish white color appearance usually indicates high silica content found in older, harder scales. Scaletec Plus has proven in some pools to help loosen and dissolve away these calcium silicate deposits but this may take 3 to 6 months. It has also helped to reduce the amount of mechanical cleaning required for complete cleanup of very hard scales.

2. Add Scaletec Plus® directly to pool water at a point of adequate circulation according to treatment chart on bottle label. *For faster descaling, it is recommended to double the initial product dosage from 3 fluid ounces to 6 fluid ounces per 1,000 gallons of pool water for even better results.*
3. Raise and maintain water level about 1” to 2” above scale line during entire cleaning period. During the summer months, the pool’s auto-fill valve must be adjusted to maintain the pool water above the scale. This is very important in order for Scaletec Plus® to contact and dissolve away deposits.
4. To improve scale removal, operate pool pump at least 8 to 12 hours daily. This will help increase the circulation of Scaletec Plus® and its descaler activity.
5. About 4 weeks later, lower pool water level back to normal. Begin monthly prevention program using product to prevent new buildup or to continue descaling to remove thicker, older type scales.

6. If pool and tile surfaces are not completely descaled after lowering water level, do one of more of the following:
 - a. Repeat descaling process during the non-swimming season;
 - b. Use topical cleaner to remove remaining stubborn deposits and polish surfaces;
 - c. Continue using Scaletec Plus® monthly to continue descaling as well as to prevent new deposits. Some harder scales will slowly dissolve away after a few months if a monthly treatment program is maintained.

Important Cleanup Tips:

1. Keep pool chlorine levels at 1.5 to 2.0 ppm if possible. Do not shock pool as this will diminish the effectiveness of Scaletec Plus®. Use a pool algaecide to help keep water clear during the cleaning process. Select an algaecide that will help reduce chlorine use, such as Pooltec®.
2. For harder waterline deposits, brush weekly with standard pool brush to help loosen scale. This will also help Scaletec Plus further penetrate deposits for extra dissolving action.
3. For older, thicker-type layered scale, add an additional cleanup dosage of Scaletec Plus two weeks after starting initial descaling treatment.
4. If descaling during the summer months, it is recommended to *double the initial treatment chart dosage from 3 fluid ounces to 6 fluid ounces per 1,000 gallon.*
5. The best time to descale most pools is during the non-swimming season . . . fall, winter, and early spring.

Commonly Asked Questions about Descaling with Scaletec Plus®

1. **Q:** When is the best time to descale your swimming pool and why?
A: During the early spring, fall, and winter off-season is the ideal time. This is because with lower evaporation, temperature, and chlorine levels, the descaling process can occur with less interference.
2. **Q:** Can I descale my swimming pool during the summer with Scaletec Plus®?
A: Yes; however, the following conditions should be observed: 1) double the initial product dosage; 2) lower chlorine levels and use an algaecide to help control algae growth; 3) minimize pool shocking; and finally 4) maintain water level above waterline scale for successful summertime cleanup is essential.
3. **Q:** Scaletec Plus worked® great to descale the pool tile, however, I still have deposits on my spillway from the spa to the pool. How can I remove these remaining scale deposits?
A: In order for Scaletec Plus to descale these remaining deposits, it is essential to raise and maintain the water level above the deposit area in order for descaling to take place. Otherwise, use topical cleaner or pumice stone to remove remaining deposits. Use Beatec monthly preventative to prevent future scale deposits from building on pool / spa surfaces.
4. **Q:** After starting the descaling treatment, white residue appeared at the bottom of pool. What is this? Is this normal? How do I remove it?
A: This residue is typically calcium scale particles or flakes. It is a normal occurrence when descaling. It should be removed by manually vacuuming pool bottom or through the regular cleaning activity of your pool cleaner.

5. **Q:** After four weeks of descaling my pool with Scaletec Plus®, I observed little or no scale removal especially at the water line. What happened?
A: The water line deposits are the most difficult area to clean. It is likely that you have encountered the harder, more complex calcium-silicate type scale. Scaletec Plus® has probably helped to begin the pre-dissolving process to soften these harder scales. Depending on the age and thickness of the scale, topical cleaning, scrubbing, or mechanical cleaning may be necessary to remove these remaining scales more quickly. Additional maintenance dosages of Scaletec Plus® has proven to be helpful in removing these types of complex scale slowly over a period 3 to 6 months or longer. Contact your pool professional to locate a mechanical cleaning service for further assistance.
6. **Q:** The water line deposits were not removed by using Scaletec Plus®. Did the product still help to descale any surfaces or equipment below the water level?
A: In most cases, the answer is yes! First of all, water line deposits can be more difficult to remove; however, *Scaletec Plus® most likely descaled the remaining pool shell surfaces, piping, filter system, heater, and solar unit.* The surfaces should feel smoother to the touch especially for swimmers.
7. **Q:** I did see some removal of water line deposits while descaling with Scaletec Plus®, but it is not all gone. What should I do?
A: You have two options: Option #1 – continue the descaling process by adding another full application of product and following the descaling steps. Option #2 - begins using Scaletec Plus® monthly as a maintenance product. Continued monthly use usually will help to soften and remove stubborn deposits over time especially if you aid with some topical cleaners and scrubbing.
8. **Q:** Is there a recommended procedure for brushing or scrubbing the pool when descaling with Scaletec Plus®?
A: Pools with primarily calcium deposits do not require much brushing. However, if the scale deposit is old, thick, or hard, brushing helps loosen and allows Scaletec Plus to penetrate the scale. Where damage to the surface is not likely to occur due to thick scale, initially use a metal bristle type brush to help soften and loosen the top layers. Brush several times per week or as often as practical especially for more difficult type deposits until the scale is removed. As the deposit becomes thinner, change to a softer type brush or scrubbing pad (sold in pool retail stores) to prevent surface damage.
9. **Q:** Can I over treat my pool with Scaletec Plus® when descaling and if I do, what can I do to remedy this condition?
A: It is not likely to over treat your pool with Scaletec Plus® because the overdose level is at least ten times the maximum dosage. Even at that level, water would still be safe to contact, but it may cause the pool water to turn hazy or cloudy. Should this problem occur, partially drain pool water to reduce its concentration back to normal levels.
10. **Q:** What conditions, environmental, or other water factors interfere with Scaletec Plus® effectiveness?
A: The most significant interference with the product would be excessive chlorine use or shocking especially during the summer swim season. Environment factors have very little influence except in very shallow pools where sunlight will degrade some of the product's performance. Temperature, other pool additives, and swimmers have virtually no affect on the product. Water pH, dissolved metals, and very high calcium levels also have little effect on Scaletec Plus®.
11. **Q:** Your label indicates that it takes at least 2 to 4 weeks for the product to work? Why so long?
A: Scaletec Plus® dissolves scale deposits by the action of the descalers circulating in pool water around and onto the deposit to slowly and safely remove it. This activity takes time because it must absorb onto the deposit and dissolve it. Depending on the thickness of the deposit, its age, its composition, and the time of year performing the descaling process, the cleanup time varies.

12. **Q:** At what point or condition will Scaletec Plus® no longer prevent scale buildup on pool surfaces.
A: Scaletec Plus® was developed for and capable of controlling well over 1,500 to 2,000 or more parts per million of calcium hardness in *stressed water with very high alkalinity and pH*. These stressed conditions are not found in swimming pools. Therefore, it is nearly impossible to exceed the capability of Scaletec Plus to continue working in your pool.
13. **Q:** How does Scaletec Plus® work?
A: Scaletec Plus® powerful Synertec™ formula functions by utilizing several mechanisms involving dispersion, crystal modification, and “threshold inhibition.” The product’s absorption onto a calcium crystal’s site helps weaken, dissolve, and prevent further precipitation. Stains are removed and prevented by solubilizing metal ions (adsorption) and dispersed (sequestration and inhibition).
14. **Q:** After descaling, I lowered my pool water level and found a white film around the edge of the tile. What is this and how do I remove it?
A: This white film of residue is most likely calcium. After descaling, unless you are able to quickly lower the water level with minimal interference from temperature or sunlight, the water minerals will redeposit on warm or heated surfaces and create this film. A film is not the same as a water line deposit and can be easily removed with a topical cleaner or mild scrubbing to polish surfaces.

Thank you for considering and/or purchasing Scaletec Plus®. If you have additional questions after reviewing this information release from EasyCare® Products, please call 1-800-289-7660 ext. 223, customer technical support. Leave a detailed message regarding your specific issue and you’ll receive a response within 24 to 48 hours. Be sure to leave a return phone number or email address.