

Stabilizer – Tips Sheet

What is Stabilizer?

Stabilizer, also known by its technical name, Cyanuric Acid (CYA), is a very important component in ensuring proper disinfection with chlorine in outdoor pools. The primary role of stabilizer is to help keep chlorine in pool water by preventing its dissipation to ultra-violet (UV) rays of the sun. Without the use of stabilizer, chlorine would be destroyed by UV very quickly. This would make the maintenance of a desirable residual of chlorine (1 – 3 ppm) very difficult, leading to periods of inadequate sanitation, compromising bather safety. Stabilizer is only required in outdoor pools where UV is able to come in direct contact with the water. Bromine pools do not benefit from the use of stabilizer.

Another proven benefit of stabilizer is its ability to reduce vinyl liner deterioration. Studies have shown that a stabilizer level of 30 – 50 ppm will slow deterioration of vinyl, extending its life.

The minimum level of stabilizer is 30 ppm and the maximum is 100 ppm. Should the stabilizer level rise beyond 100 ppm, the pool water should be diluted with fresh fill water to reduce the level. As stabilizer levels climb beyond 100 ppm, they can affect the ability of free chlorine residuals to effectively kill microbes in the time required to ensure proper disinfection. As stabilizer does not break down or wear out, it must be drained from a pool when the levels get too high.

Ideal Stabilizer Levels:	Stabilized Chlorine Program:	30 - 50 ppm
	Unstabilized Program, Salt Pools:	50 ppm
Maximum Stabilizer Level:	All Programs:	100 ppm

Adding Stabilizer to Pool Water:

Dazzle™ has 2 high quality stabilizer products to choose from when stabilizer is needed.

Dazzle™ Pro Balance Instant UV Block is a liquid product that goes to work instantly when applied to pool water. Shake well, then simply pour slowly around the edges of the pool. Alternatively, the product could be poured slowly into a clean skimmer and filter. Following application, triple rinse the container to ensure all product has been added. The dosage rate for **Dazzle™ Instant UV Block** is 1 litre per 10,000 litres to achieve the starting stabilizer concentration of 30 ppm. **AquaAce**, our highly accurate computerized water analysis program, will calculate the quantity of **Pro Balance Instant UV Block** required, based on the starting stabilizer level.

Dazzle™ Pro Balance UV is the more traditional product for adding stabilizer to pool water. This extremely slow dissolving granular product is best applied by mixing the amount required in a pail of water and pouring the resulting slurry into a clean skimmer and filter. **Caution:** Do not backwash the filter for a minimum of 48 hours to allow the product time to dissolve into the water. Alternatively, the product could be applied into a nylon stocking or fine mesh bag and allowed to sit in the skimmer basket. Again, the product will take a considerable time to dissolve so be careful not to throw the product away before it is able to dissolve completely. The dosage rate for **Pro Balance UV** is 300 g per 10,000 litres to establish 30 ppm of stabilizer.



Dazzle™ Pro Balance Instant UV Block
Shake well and apply slowly around edges of pool.



Dazzle™ Pro Balance UV
Mix in pail of water to form slurry and slowly pour into clean skimmer.