

## Aquavitro Eight.Four

Many competing buffers for reef aquaria are simply sodium bicarbonate. Such buffers have a pK of only 8.0 in saltwater and simply are unable to maintain a pH above 8.0. The low buffering pK is a function of the low carbonate/bicarbonate ratio.

eight.four<sup>®</sup> supplies a properly balanced (carbonate/bicarbonate) buffer system that yields an industry leading pK of 8.6 which makes pH maintenance of 8.3-8.5 easy. A higher pK increases the buffer's ability to counteract inevitable acidic sources in the water. eight.four<sup>®</sup> will safely raise marine pH while adjusting alkalinity. eight.four<sup>®</sup> contains a concentrated, balanced blend of bicarbonate and carbonate salts designed to restore disrupted buffer systems and increase carbonate alkalinity.

If an alkalinity of 6 meq/L has been reached and a pH of at least 8.20 has not been attained, the system may be ionically unbalanced. Check magnesium levels. If magnesium is low, use ions<sup>®</sup>. However, if magnesium levels are within optimal range, the buffer ratio has likely been disrupted (the buffer ratio changes as a natural consequence of the buffer<sup>™</sup>s ability to counteract acidifying sources such as organic acids). You can raise pH without raising alkalinity using balance<sup>®</sup>.  
Directions

Dosing requirements will vary, but do not exceed the recommended dose without checking your pH and alkalinity (alkalinity should not exceed 6 meq/L). Use one inner capful (7 ml) for every 110 L (30 gallons\*) daily until pH stabilizes to desired level. Note: each inner cap thread is approximately 2 mL. One full cap is 49 mL.

pH stabilization may take from a day to a week, depending on original pH, alkalinity, and buffer system balance. Thereafter, use as needed to maintain pH.

Use Seachem<sup>™</sup>s MultiTest<sup>®</sup>: Marine pH & Alkalinity to check pH and total alkalinity. For a complete analysis of alkalinity, use Seachem<sup>™</sup>s Reef Status<sup>®</sup>: Magnesium & Carbonate/Borate Alkalinity kit.

Unlike competing products that require multi-day interval dosing when combined with calcium supplements, eight.four<sup>®</sup> can be dosed daily and within minutes of our calcium supplement (calcification<sup>®</sup>) as well as balance<sup>®</sup> and ions<sup>®</sup>.