

### **Use this recipe if PH is over 8.3**

#### **Items Needed**

- (3) Clean one gallon jugs with caps
- (3) Gallons of RO/DI water
- (1) One cup measuring cup
- (1) Clean pail or bowl to mix dry magnesium material

#### **Directions**

**These directions will make 1 gallon each of Calcium, Alkalinity, and Magnesium solution.**

##### **Calcium**

1. Fill one of the gallon jugs  $\frac{3}{4}$  full with RO/DI water.
2. Place 1 Cups of Smart Reef™ +Calc (Calcium Chloride) into the jug, cap and shake.
3. Repeat "Step 2" with 1  $\frac{1}{4}$  additional cups of Smart Reef™ +Calc.
4. Fill the remainder of the jug with water.
5. Label as Calcium.

##### **Alkalinity**

1. Fill one of the gallon jugs  $\frac{3}{4}$  full with RO/DI water.
2. Place 1  $\frac{1}{8}$  Cup of Smart Reef™ +AlkHPH (Sodium BiCarbonate) into the jug, cap and shake.
3. Repeat "Step 2" with 1 additional cup of Smart Reef™ +AlkHPH.
4. Fill the remainder of the jug with water.
5. Label as Alkalinity.

##### **Magnesium**

1. Fill the last gallon jug  $\frac{3}{4}$  full with RO/DI water.
2. Take 5 cups of Smart Reef™ +Mag1 (Magnesium Chloride) and 3 Cups of Smart Reef™ +Mag2 (Magnesium Sulfate) and mix together in a clean pail.
3. Add  $\frac{1}{3}$  of this mixture at a time to the jug and cap and shake.
4. Repeat twice with the remaining  $\frac{1}{3}$ rds.
5. Fill the remainder of the jug with water.
6. Label as Magnesium.

#### **Dosing:**

1. First test calcium, alkalinity and magnesium levels and adjust to their correct points if needed. Do not make drastic changes to levels. Adjust slowly over days to get to the initial proper levels. You can use the calculator on our web site to find the amounts to dose.
2. Once the tank is at the right levels use the chart below to determine the daily dose. They are guidelines. Test and adjust as necessary. Add the calcium and alkalinity separately and slowly. Dripping is the best method. Dose 20 oz of the Magnesium solution per gallon of the Calcium and Alkalinity. This can be dosed slowly at once or over time. Just dose 20 oz. of the Magnesium solution per gallon of Calcium and Alkalinity.

<b>Mostly LPS and Soft</b>	<b>Corals Some SPS &amp; Clams</b>	<b>Many SPS and Clams</b>
.4-.6ml/gallon	.8-1.2ml/gallon	2+ml/gallon

**Notes**

1. *Some cloudiness is normal when adding. It will dissipate.*