

The Balling Powder System has been designed to replace the calcium reactor (Balling Powder CA1 e Balling Powder KH 2) and to obtain a complete reintegration of all the useful elements for the growth of a healthy reef (Balling Powder MG 3, MG 3, Special&Color Elements, Macro&Grow Elements). This special system is suitable for users with different level of knowledge, from beginner to expert, depending on the mode of use. The system is universal and can be applied to all management systems, bare bottom, probiotic (bacterial reproduction), DSB, with or without refugium, etc.

The complete system allows to replenish all the following elements:

Calcium, Carbonates, Magnesium, Potassium, Boron, Strontium, Sulfur, Iodine, Fluorine, Lithium, Zinc, Molybdenum, Manganese, Bromine.



Thanks to the liquid formulation, the Ready Balling system is easier to use, allows a better ion balance and has a greater buffer capacity than the traditional system.

Depending on the mode of use and the products used, the system is addressed to users with different levels of experience:



Simple:
CA 1
KH 2
(MG 3, S&C,
M&G optional)
no software

Intermediate:
CA 1
KH 2
(MG 3, S&C,
M&G optional)
yes software

Expert:
CA 1
KH 2
S&C
M&G
yes software

Super Expert:
CA 1
KH 2
S&C
M&G
yes software
ICP





Useful information for all levels of use:

- Prepare 5 liters of solution for each of the 3 Powder, dissolving the powder in about 3 liters of osmosis water, then adding water to reach the 5 liters.
- Solution 1: 2 kg of Powder CA 1 and osmosis water up to 5 liters
- Solution 2: 250g of Powder KH 2 and osmosis water up to 5 liters
- Solution 3: 2 kg of Powder MG 3 and osmosis water up to 5 liters

The use of 250g of Powder KH 2 allows a complete dissolution of the product and therefore you are sure of the reintegration power of the obtained solution. In this way it is possible to use the software for automatic calculation of the dosage that simplifies the use of the products.



Description of the products:

Powder CA 1: Calcium

Powder KH 2: Carbonates

Powder MG 3: Magnesium

S&C: Micro elements and trace elements useful for coloring

M&G: Macro elements useful for growth

All products are obtained through the use of raw materials with pharmaceutical grade purity.





Mode of use: Simple

The simple use method involves the use of only the two CA 1 and KH 2 products. The use of MG 3, S&C e M&G is optional. The system is mainly used to replace the calcium reactor. The dosage can be done either by hand or using dosing pumps.



The simplified dosage involves starting with standard dosages and then measuring calcium and carbonates. If the values are stable, the dosages do not need to be changed. If the values are lowered, the dose should be increased. On the contrary, if they rise, the dose must be reduced.



Measure Ca and KH and write down the values.

Dosage:

CA 1: 1 ml per 100 liters

KH 2: 5 ml per 100 liters

After a few days, measure again Ca and KH. Increase or decrease the dose depending on the result obtained. Measure Ca and KH at regular intervals and adjust the dose until the parameters remain stable. The consumption of Ca and KH may vary according to population and period, it is advisable to keep the Ca and KH values also monitored later.

Optional:

MG 3: Dosage a quarter (1/4) the amount of CA 1

S&C and M&G can be used according to instructions, 25 ml every 5 liters of product.

Water changes:

We recommend measuring salinity from time to time (at least a couple of times a month). It's generally a good practice and, moreover, using the Balling system it's normal to observe a slight increase in salinity. If you find a salinity higher than normal, remove a little of salt water and replace it with osmosis water to restore the right salinity.

Perform regular water changes as usual.





Mode of use: Intermediate

The intermediate method requires the use of only the two CA 1 and KH 2 products. The use of MG 3, S&C e M&G is optional. The system is mainly used to replace the calcium reactor. The dosage can be done either by hand or using dosing pumps.



The intermediate dosage foresees the use of the software on the Oceanlife website to determine precisely the quantity of the products.

The program calculates both the quantity in ml of product and the total time of the dosing pump, if the flow rate of the pump has been inserted.

If the dosage exceeds 5 ml per 100 liters, we suggest to split the dosage in several times throughout the day, up to a maximum of 5 ml per 100 liters per dosage.



Step 1 (first dosage):

Measure Ca and KH and write down the values.

Do not dose anything for a few days remembering the number of passed days. If the tank has a high consumption of Ca and KH, we recommend waiting a maximum of 2 or 3 days. Perform the Ca and KH tests again. Enter the values in the appropriate spaces within the calculation program (zero in current dosage) and click on the “calculate” button. The system will determine the quantity of products to be used to maintain the values at the desired level and the quantity of specific products to restore the initial Ca and KH values.

Optional:

Perform the same procedure for magnesium and calculate the MG 3 with the help of the software.

S&C and M&G can be used according to instructions, 25 ml every 5 liters of product.

Step 2 (possible dose adjustments):

Keep a record of the previous values of Ca and KH. After some time, measure the Ca and KH values again. If these differ from the previous ones, insert again all the values in the appropriate spaces in the software, together with the current dosage of the products. By clicking on “calculate”, the program will calculate the new dosage to be replaced to the previous one.

Water changes:

We recommend measuring salinity from time to time (at least a couple of times a month). It's generally a good practice and, moreover, using the Balling system it's normal to observe a slight increase in salinity. If you find a salinity higher than normal, remove a little of salt water and replace it with osmosis water to restore the right salinity.

Perform regular water changes as usual.





Mode of use: Expert

The expert method requires the use of CA 1, KH 2, MG 3, S&C e M&G products. It is a complete replenishment system for all the useful elements. It is advisable to dose the products using dosing pumps.

 The expert dosage foresees the use of the software on the Oceanlife website to determine precisely the quantity of the products. The program calculates both the quantity in ml of product and the total time of the dosing pump, if the flow rate of the pump has been inserted. If the dosage exceeds 5 ml per 100 liters, we suggest to split the dosage in several times throughout the day, up to a maximum of 5 ml per 100 liters per dosage.

 **Step 1 (first dosage):**
Measure Ca, KH and Mg and write down the values. Do not dose anything for a few days remembering the number of passed days. If the tank has a high consumption of Ca and KH, we recommend waiting a maximum of 2 or 3 days. Perform the Ca, KH and Mg tests again. Enter the values in the appropriate spaces within the calculation program (zero in current dosage) and click on the “calculate” button. The system will determine the quantity of products to be used to maintain the values at the desired level and the quantity of specific products to restore the initial Ca, KH and Mg values. S&C and M&G can be used according to instructions, 25 ml every 5 liters of product.

Step 2 (possible dose adjustments):

Keep a record of the previous values of Ca, KH and Mg. After some time, measure the Ca, KH and Mg values again. If these differ from the previous ones, insert again all the values in the appropriate spaces in the software, together with the current dosage of the products. By clicking on “calculate”, the program will calculate the new dosage to be replaced to the previous one.

Water changes:

We recommend measuring salinity from time to time (at least a couple of times a month). It's generally a good practice and, moreover, using the Balling system it's normal to observe a slight increase in salinity. If you find a salinity higher than normal, remove a little of salt water and replace it with osmosis water to restore the right salinity. Perform regular water changes as usual.





Mode of use: Super Expert

The expert method requires the use of CA 1, KH 2, MG 3, S&C e M&G products. It is a complete replenishment system for all the useful elements.

It is advisable to dose the products using dosing pumps.



The super expert dosage is formally the same as the expert dosage but in addition it involves the measurement at regular intervals of the parameters through an ICP measuring system that allows to evaluate the concentration of all the individual elements that make up the water.

Once the analyzes have been obtained, enter the values within our Balance program which will provide instructions to rebalance the system, if necessary, in each of its parameters.

Balling System

