

## HOW TO DOSE GUIDE









TRACES INCLUDED
IODINE AND FLUORIDE

ALKALINITY
COMPLETE

5ml raises
Alk
by 0.28dkh/
100L

100,000PPM

TRACES INCLUDED

IRON MANGANESE COPPER ZINC NICKEL CHROMIUM COBALT BARIUM STRONTIUM CALCIUM



TRACES INCLUDED
POTASSIUM AND BORON

MAGNESIUM

5ml raises Mag by 1ppm/ 100L

A BLEND OF VITAMINS, FATTY ACIDS AND AMINOS

CORAL









## BACTERIA FOOD

A CONCENTRATED SOLUTION OF ACETIC
ACIDS AND SUCROSE FOR MARINE
AQUARIUMS. IT IS ESSENTIAL TO
PROMOTE NITRIFYING BACTERIA GROWTH
IN ALL MARINE SYSTEMS WHICH AIDS IN
THE BREAKDOWN OF ORGANIC WASTE.



## **BIO CLEAN**

A SOLUTION OF CLAY COMPOUNDS. IT IS AN INSOLUBLE, INORGANIC BINDER THAT PROVIDES IMPROVED SKIMMING FUNCTION. USED REGULARLY IT WILL HELP KEEP YOUR AQUARIUM CRYSTAL CLEAR



## **BORON**

A COMPONENT IN THE FORMATION OF CORAL SKELETONS, CO-PRECIPITATING WITH CALCIUM Carbonate. Boron also assists slightly in Ph Buffering of Aquarium water.



## **BROMIDE**

CAN HELP WITH COLOURATION ,
ALKALINITY UPTAKE AND HEALTH OF
ZOOXANTHELLAE









## CORAL FW DIP

A VERY EFFECTIVE PRODUCT TO REMOVE
FLATWORM FROM SPS CORAL. A BLEND OF TEA
TREE OIL AND ISOPROPYL ALCOHOL THAT IS
EXTREMELY EFFECTIVE IN REMOVING FLATWORM
OFF ALL CORAL TYPES, ESPECIALLY SPS.
Note: DO NOT USE on Montipora species.



## **FLUORIDE**

ESSENTIAL FOR HEALTHY GROWTH OF BOTH
SOFT AND HARD CORALS, ENHANCED BLUE AND
VIOLET COLOURATION IN CORALS, AS WELL AS
THE REGULATION OF ZOOXANTHELLAE.



## IODINE

ESSENTIAL FOR HEALTHY GROWTH OF BOTH SOFT AND HARD CORAL AS WELL AS THE PROMOTION OF HEALTHY MACROALGAE GROWTH. IODINE IS ALSO USED FOR ENHANCED BLUE COLOURATION IN CORALS. IODINE IS AN ESSENTIAL ELEMENT FOR PROPER CELLULAR FUNCTION AND THE TRANSFER OF NUTRIENTS WITHIN CELLS



## IRON

A CONCENTRATED BLEND OF IRON FOR MARINE
AQUARIUMS. IT IS ESSENTIAL FOR ZOOXANTHELLAE
PHOTOSYNTHESIS, THE PROMOTION OF HEALTHY
MACROALGAE GROWTH AND ENHANCED GREEN
COLOURATION IN CORALS. IRON IS ALSO A BASE
ELEMENT USED IN BACTERIAL METABOLISM WHICH
FORMS PART OF VARIOUS PHYSIOLOGICAL PROCESSES
THAT OCCUR IN MARINE TANKS.









#### **POTASSIUM**

ESSENTIAL FOR HEALTHY GROWTH OF BOTH SOFT AND HARD CORAL, ENHANCED RED AND PINK COLOURATION IN CORALS, AS WELL AS PROMOTING CORAL EXOSKELETON GROWTH.

USED IN BOTH CORAL SKELETON FORMATION AND CELLULAR PROCESSES. ALSO DIRECTLY INVOLVED IN THE

BIOSYNTHESIS OF GLUCOSE THROUGH PHOTOSYNTHESIS.

**POTASSIUM** 

- STRONTIUM



#### REEF KI3

ESSENTIAL FOR HEALTHY GROWTH OF BOTH SOFT AND HARD CORAL,
ENHANCED BLUE AND VIOLET COLOURATION IN CORALS, AS WELL AS THE
PROMOTION OF HEALTHY MACROALGAE GROWTH. UTILIZED BY CORALS FOR
THE SYNTHESIS OF PIGMENTS, WHICH ALLOW THEM TO ADAPT TO VARYING
LIGHT CONDITIONS AND PROVIDE THEIR TISSUE WITH PROTECTION FROM UV

RADIATION. REEF KI3 CAN ALSO BE USED AS A CORAL DIPPING SOLUTION.



#### **STRONTIUM**

STRONTIUM IN NATURAL SEA WATER IS IN THE ORDER
OF 8-10PPM. KEEPING STRONTIUM AT THIS LEVEL IS
ADVISABLE AND NOT OUTSIDE THE RANGE OF 5-15PPM.
ANECDOTAL EVIDENCE HAS SHOWN THAT STRONTIUM
AT BELOW 5PPM IN THE MARINE AQUARIUM IS
DETRIMENTAL TO CORAL GROWTH.



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PRODUCT	DOSING LOW SPS	DOSING MED SPS	DOSING HIGH SPS
POWER BORON	0.25 DROP / 100L	0.5 DROP / 100L	1.5 DROPS / 100L
POWER BROMIDE	0.25 DROP / 100L	0.5 DROP / 100L	1.5 DROPS / 100L
POWER IRON	0.25 DROP / 100L	0.5 DROP / 100L	1.5 DROPS / 100L
POWER POTASSIUM	0.25 DROP / 100L	0.5 DROP / 100L	1.5 DROPS / 100L
POWER IODINE	0.25 DROP / 100L	0.5 DROP / 100L	1.5 DROPS / 100L
POWER FLUORIDE	0.25 DROP / 100L	0.5 DROP / 100L	1.5 DROPS / 100L
POWER REEF KI3	0.25 DROP / 100L	0.5 DROP / 100L	1.5 DROPS / 100L
POWER STRONTIUM	0.25 DROP / 100L	0.5 DROP / 100L	1.5 DROPS / 100L

For FW Dip, Bacteria Food and Bio Clean please refer to website for dosing guide as every tank is different





#### NITRATE UP

CORAL ESSENTIALS, CORAL POWER NITRATE UP IS A CONCENTRATED, INORGANIC NITROGEN SOURCE (50,000 PPM). IN BACTERIA DRIVEN SYSTEMS IT PROVIDES AN ESSENTIAL NUTRIENT SOURCE TO ASSIST IN BIOLOGICALLY BALANCING MARINE AQUARIUM SYSTEMS. INCREASING THE AVAILABLE NITRATE ALLOWS THE BACTERIA PRESENT TO NATURALLY BRING DOWN PHOSPHATE LEVELS WHILE PROVIDING A FOOD

Coral Essentials recommends running your aquarium at a nitrate level between 1ppm and 5ppm.



#### PHOSPHATE UP

#### PHOSPHATE UP

SOURCE FOR YOUR CORALS.

NITRATE UP

CORAL ESSENTIALS, CORAL POWER PHOSPHATE UP IS A BALANCED, INORGANIC PHOSPHOROUS SOURCE (1,000 PPM). IT HAS BEEN SPECIFICALLY FORMULATED TO ASSIST IN THE UPTAKE OF NITRATE IN AQUARIUM SYSTEMS. THE PHOSPHATE BASED NUTRIENT SOURCE, ALONG WITH NATURALLY OCCURRING BACTERIA, PROVIDE THE RIGHT ENVIRONMENT FOR NITRIFICATION TO ENSURE THE UPTAKE OF EXCESS DISSOLVED ORGANICS.

Coral Essentials recommends running your aquarium at a phosphate level between 0.01ppm and 0.05ppm.



Product	Dosing Low Density	Dosing Med Density	Dosing High Density
NITRATE UP	0.5 DROP / 100L	1.0 DROP / 100L	2 DROPS / 100L
PHOSPHATE UP	1 DROP / 100L	2 DROPS / 100L	3 DROPS / 100L

For the advanced aquarist 1ml will raise the nitrate levels by 0.5ppm (mg/L) for each 100L (26 gals) of tank water. For drop dosing, 2 drops (0.1ml) will raise the nitrate levels by 0.05ppm in 100L.

1ml will raise the phosphate levels by 0.01ppm (mg/L) for each 100L (26 gals) of tank water. For drop dosing, 2 drops (0.1ml) will raise the phospate levels by 0.001ppm in 100L.







## CORAL POWER TRACE A

A BLEND OF STRONTIUM (50,000 PPM)
AND BARIUM. STRONTIUM IN NATURAL SEA
WATER IS IN THE ORDER OF 8-10PPM.
KEEPING STRONTIUM AT THIS LEVEL IS
ADVISABLE AND NOT OUTSIDE THE RANGE
OF 5-15PPM. ANECDOTAL EVIDENCE HAS
SHOWN THAT STRONTIUM AT BELOW 5PPM
IN THE MARINE AQUARIUM IS DETRIMENTAL
TO CORAL GROWTH.



# CORAL POWER TRACE B

A CONCENTRATED BLEND OF IRON, ZINC, COPPER, MANGANESE, CHROMIUM, COBALT AND NICKEL. THESE TRACE ELEMENT METALS BECOME DEPLETED IN MARINE TANKS AND NEED TO BE REPLACED. USE OF OUR CORAL POWER TRACE-B IS ESSENTIAL TO MAINTAIN GOOD GROWTH, AND BRIGHT COLOURATION OF SPS CORALS.



# CORAL POWER TRACE C

A BLEND OF POTASSIUM IODIDE AND SODIUM FLUORIDE. IT PROVIDES A COMPLETE BLEND OF IODINE AND FLUORINE FOR THE MARINE ENVIRONMENT. THESE TRACE ELEMENTS ARE DEPLETED BY HEALTHY CORAL AND REGULAR USE IS REQUIRED TO MAINTAIN GROWTH AND COLOURATION.



MANUAL DOSING				
Product	Dosing Low SPS	Dosing Med SPS	Dosing High SPS	
Power Trace A	0.5 drop / 100L	1.0 drop / 100L	2.0 drops / 100L	
Power Trace B	0.5 drop / 100L	1.0 drop / 100L	2.0 drops / 100L	
Power Trace C	0.5 drop / 100L	1.0 drop / 100L	2.0 drops / 100L	
AUTO DOSING				
Dosing Water	Primary Care	RO water	Power Trace	
Calcium (for 1L)	Calcium 500ml	500ml	Trace A - 2 ml Trace B - 2 ml	
Alkalinity (for 1L)	Carbonate 500ml	500ml	Trace C - 2 ml	







## CORAL POWER AMINO

#### **CORAL POWER AMINO**

POWER AMINO IS A CONCENTRATED BLEND OF ESSENTIAL AMINO ACIDS FOR MARINE AQUARIUMS. IT IS ESSENTIAL FOR ENZYME PRODUCTION, TISSUE GROWTH AND SKELETON FORMATION. CORALS ALSO REQUIRE AMINO ACIDS TO BUILD PROTEIN FOR TISSUE GROWTH AND ALSO FOR SYNTHESIS OF THE ORGANIC MATRIX WHICH REGULATES AND ACCELERATES CALCIUM CARBONATE DEPOSITION IN THE SKELETON OTHERWISE KNOWN AS CALCIFICATION.

Please note Coral Essentials – Coral Power Amino should be kept in a cool dark place and preferably refrigerated after opening.



## CORAL POWER GRO

#### - CORAL POWER GRO

POWER GRO IS A CONCENTRATED BLEND OF VITAMIN COMPLEXES. IT ALSO INCLUDES THE AMINO ACID L-LYSINE. THIS PROVIDES A VITAL SOURCE OF FOOD FOR CORAL AND ENHANCES GROWTH AND COLOURATION. IT IS ESSENTIAL FOR INCREASED VITALITY, CORAL METABOLISM AND OVERALL FOOD SOURCE FOR MOST MARINE AQUARIUM INHABITANTS. POLYP EXTENSION IS INCREASED AFTER DOSING CORAL POWER GRO, INDICATING HEALTHY, FEEDING CORAL.



Product	Dosing Low Density	Dosing Med Density	Dosing High Density
POWER AMINO	0.5 DROP / 100L	1.0 DROP / 100L	2 DROPS / 100L
POWER GRO	1 DROP / 100L	2 DROPS / 100L	3 DROPS / 100L

For FW Dip, Bacteria Food and Bio Clean please refer to website for dosing guide as every tank is different







#### CHROMA+

A BLEND OF WATER SOLUBLE, COMPLEX ORGANIC COENZYMES. IT AIDS IN THE CATABOLISM OF SUGARS AND AMINO ACIDS AS WELL AS SUPPORTING MANY METABOLIC PROCESSES. THE MULTIPLE COENZYMES IN OUR FORMULA ARE ESSENTIAL FOR MANY ENZYMATIC REACTIONS SUPPORTING ALL ANIMAL LIFE. CHROMA+ BRINGS YOUR CORAL TO LIFE, COLOURS POP AND RADIANCE IS IMPROVED. NOTHING GIVES YOUR TANK A COLOUR BOOST LIKE CHROMA+.



### **ENERGY+**

A BLEND OF FAT SOLUBLE, ORGANICALLY FOUND AND SYNTHETIC COMPOUNDS. IT PROVIDES IMPROVED FEEDING AND AN ACTIVE AID IN THE UPTAKE OF CALCIUM FOR INCREASED CORAL SKELETAL GROWTH. ENERGY+ HELPS CORAL UPTAKE AMINO ACID AND OTHER VITAMINS PRESENT IN THE WATER. ENERGY+ BRINGS LIFE AND MOVEMENT REACTION IN YOUR CORAL, POLYP EXTENSION AND FEEDING ACTIVITY IS SIGNIFICANTLY IMPROVED. NOTHING GIVES YOUR TANK A FEEDING BOOST LIKE ENERGY+.



## VIBRANCE+

A BLEND OF WATER SOLUBLE, ORGANICALLY FOUND AND SYNTHETIC COMPOUNDS. IT PLAYS A VITAL ROLE IN AIDING RAPID CELL DIVISION AND GROWTH. IT IS VITALLY INVOLVED IN THE METABOLISM OF LIVING CELLS, ESPECIALLY AFFECTING PROTEIN SYNTHESIS AND METABOLISM OF FATTY ACIDS AND AMINO ACIDS. VIBRANCE+ BRINGS VIGOUR AND HEALTH TO YOUR CORAL, POLYP EXTENSION AND ACTIVITY IS IMPROVED. NOTHING GIVES YOUR TANK AN ACTIVE BOOST LIKE VIBRANCE+.





Product	Dosing Low Density	Dosing Med Density	Dosing High Density
Chroma+	0.5 drop / 100L	1.0 drop / 100L	1.5 drops / 100L
	morning and evening	morning and evening	morning and evening
Energy+	0.5 drop / 100L	1.0 drop / 100L	1.5 drops / 100L
	morning and evening	morning and evening	morning and evening
Vibrance+	0.5 drop / 100L	1.0 drop / 100L	1.5 drops / 100L
	morning and evening	morning and evening	morning and evening





## + TRACE

#### **CALCIUM + TRACE**

IS A CONCENTRATED SOURCE OF LIQUID CALCIUM, 100,000 PPM (MG/L) AND A UNIQUE BLEND OF TRACE ELEMENTS. WE HAVE ADDED CORAL POWER TRACE A AND B ELEMENTS INTO THIS MIX USING THE PROVEN CORAL ESSENTIALS METHOD DOSING REGIMENT. WHEN USING CALCIUM + TRACE THERE IS NO NEED TO ADD TRACE ELEMENTS.



### CARBONATE + TRACE

#### **CARBONATE + TRACE**

IS A CONCENTRATED SOURCE OF LIQUID CARBONATE,
180,000 PPM (MG/L) OR 10,000DKH AND A OWN UNIQUE
BLEND OF TRACE ELEMENTS. WE HAVE ADDED OUR CORAL
POWER TRACE C ELEMENTS AS WELL AS BORON AND
BROMIDE INTO THIS MIX USING THE PROVEN CORAL
ESSENTIALS METHOD DOSING REGIMENT. WHEN USING
CARBONATE + TRACE THERE IS NO NEED TO ADD
ADDITIONAL TRACE ELEMENTS.



### MAGNESIUM + TRACE

#### **MAGNESIUM + TRACE**

IS A CONCENTRATED SOURCE OF LIQUID MAGNESIUM, 12,500 PPM (MG/L) AND A UNIQUE BLEND OF POTASSIUM. WE HAVE ADDED CORAL POWER POTASSIUM INTO THIS MIX USING OUR PROVEN CORAL ESSENTIALS METHOD DOSING REGIMENT. WHEN USING MAGENSIUM + TRACE THERE IS NO NEED TO ADD ADDITIONAL TRACE ELEMENTS.



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Product	Soft Coral / LPS System	Mixed Reef System	SPS Dominant System
Calcium + Trace	3ml per 100L	6ml per 100L	12ml per 100L
	of tank volume per day	of tank volume per day	of tank volume per day
Carbonate + Trace	3ml per 100L	6ml per 100L	12ml per 100L
	of tank volume per day	of tank volume per day	of tank volume per day
Magnesium + Trace	3ml per 100L	6ml per 100L	12ml per 100L
	of tank volume per day	of tank volume per day	of tank volume per day







#### **CALCIUM UP**

#### CALCIUM UP

IS AN ESSENTIAL COMPONENT IN THE FORMATION OF CALCIUM CARBONATE SKELETONS, I.E. CORAL GROWTH. THE CALCIUM LEVELS IN MARINE TANKS NEED TO BE CHECKED REGULARLY TO DETERMINE THE TAKE UP IN YOUR SYSTEM. WE HAVE FOUND IDEAL CALCIUM LEVELS TO BE AT 430-470PPM. LEVELS OF 470+ PPM ARE DESIRABLE IF YOU WANT TO MAINTAIN HIGH LEVELS OF GROWTH IN A SPS AND HARD CORAL DOMINANT SYSTEM.



#### **CARBONATE UP**

#### **CARBONATE UP**

IS ALSO AN ESSENTIAL COMPONENT IN THE FORMATION OF CALCIUM CARBONATE SKELETONS, I.E. CORAL GROWTH. THE ALKALINITY LEVELS IN MARINE TANKS NEED TO BE CHECKED REGULARLY TO DETERMINE THE CARBONATE TAKE UP IN YOUR SYSTEM. YOUR TANK WILL CHANGE OVER TIME AS CORAL GROWS, NEW PIECES ARE ADDED AS WELL AS INVERTEBRATES THAT ALSO TAKE UP CARBONATE. WE HAVE FOUND IDEAL KH LEVELS TO BE AT ABOUT 8-9 DKH FOR MOST AQUARIUMS. LEVELS OF 8.5 – 9.0 DKH ARE DESIRABLE IF YOU WANT TO MAINTAIN HIGH LEVELS OF GROWTH IN A SPS AND HARD CORAL DOMINANT SYSTEM.



#### **MAGNESIUM UP**

#### **MAGNESIUM UP**

CORAL TAKE UP MAGNESIUM INTO THEIR CALCIUM CARBONATE SKELETONS. IT IS IMPORTANT TO MAINTAIN ADEQUATE MAGNESIUM LEVELS AS THIS IS ESSENTIAL IN MAINTAINING CORRECT CALCIUM AND ALKALINITY LEVELS. POOR MAGNESIUM LEVELS USUALLY RESULT IN THE NEED FOR ADDITION OF MUCH HIGHER LEVELS OF CALCIUM AND CARBONATE THAN WOULD NORMALLY BE REQUIRED. IT SERVES TO PREVENT THE EXCESSIVE PRECIPITATION OF CALCIUM CARBONATE FROM AQUARIUM WATER. YOUR TANK WILL CHANGE OVER TIME AS CORAL GROWS, NEW PIECES ARE ADDED AS WELL AS MOST OTHER AQUARIUM INHABITANTS ALSO TAKE UP MAGNESIUM. WE HAVE FOUND IDEAL MAGNESIUM LEVELS TO BE AT ABOUT 1350-1400PPM FOR MOST AQUARIUMS.



Calcium Up	Strength   100,000ppm  Mixing Ratio   Mix 292gm with enough RO to make up 1L of solution. 1ml will raise the Ca level by 1.0ppm in 100L of aquarium water.	Strength 50,000ppm  Mixing Ratio Mix 146gm with enough RO to make up 1L of solution. 1ml will raise the Ca level by 0.5ppm in 100L of aquarium water.	Strength Randy's 1 37,000ppm  Mixing Ratio Mix 108gm with enough RO to make up 1L of solution. 1rnl will raise the Ca level by 0.37ppm in 100L of aquarium water.	Strength Randy's 2 18,500ppm  Mixing Ratio Mix 54gm with enough RO to make up 1L of solution. 1ml will raise the Ca level by 0.185ppm in 100L of aquarium water.
Carbonate Up	Strength   100.000ppm (5.600dKH)  Mixing Ratio   Mix 100gm with enough RO to make up 1L of solution. 1ml will raise the Alk level by 1.0ppm (0.056 dKH) in 100L of aquarium water.	Strength 180,000ppm (10,000dKH)  Mixing Ratio Mix 180gm with enough RO to make up 1 L, of solution. Iml will raise the Alk level by 1.8ppm (0.1dKH) in 100L of aquarium water.	Strength Randy's 1 95.000ppm (5.300dKH)  Mixing Ratio Mix 95 with enough RO to make up 1L of solution. Intl will raise the Alk level by 0.95pm (0.053 dKH) in 100L of aquarium water.	Strength Randy's 2 47,500ppm (2650dKH)  Mixing Ratio Mix 47.5gm with enough RO to make up 11 of solution. 1ml will raise the Alk level by 0,475ppm (0.026 dKH) in 100L of aquarium water.
Magnesium Up	Strength 12.500ppm  Mixing Ratio Mix 43gm Magnesium Sulphate with RO to make up 500mL Mix 70gm of Magnesium Chloride with RO to make up 500ml. When dissolved combine both solutions to make 1L. 1ml will raise the Mag level by 0.125ppm in 100L of aquarium water.		Strength Randy's 47,000ppm  Mixing Ratio Mix 161gm Magnesium Sulphate with RO to make up 500ml Mix 262 of Magnesium Chloride with RO to make up 500ml. When dissolved combine both solutions to make 1L. 1ml will raise the Mag level by 0.47ppm in 100L of aquarium water.	





## ACTIVATED CARBON

#### ACTIVATED CARBON

A HIGH QUALITY ACTIVATED CARBON TO ASSIST IN THE REMOVAL OF ORGANIC COMPOUNDS IN MARINE AQUARIUMS. THE HIGH ABSORPTION CHARACTERISTICS ENSURE RAPID ELIMINATION OF ORGANIC WASTE, TOXINS AND HEAVY METALS WITHOUT PHOSPHATE LEACHING.



## REEF ZEOLITE

#### - REEF ZEOLITE

A NATURAL ZEOLITE ROCK WITH HIGH ABSORBANT
AND CATALYTIC PROPERTIES FOR FINE TUNING
MARINE AQUARIUMS. THE MICRO-POROUS
STRUCTURE READILY ABSORBS AMMONIA AND
OTHER NITROGENOUS COMPOUNDS, IDEAL FOR
REMOVAL OF UNWANTED AQUARIUM WATER
ELEMENTS TO LOWER SYSTEM NUTRIENTS.



Product	Low Filtration	Medium Filtration	High Filtration	
Activated Carbon	Place 50ml in a filter sock or reactor for each 100L of aquarium volume. The carbon should be replaced every 2 months.	Place 100ml in a filer sock or reactor for each 100L of aquarium volume. The carbon should ve replaced every 2 months.	Place 150ml in a filter sock or reactor for each 100L of aquarium volume. The carbon should be replaced every 2 months.	
Reef Zeolite	Place 50ml in a filter sock or reactor for each 100L of aquarium volume. The zeolite should be replaced every 2 months.	Place 100ml in a filer sock or reactor for each 100L of aquarium volume. The zeolite should ve replaced every 2 months.	Place 150ml in a filter sock or reactor for each 100L of aquarium volume. The zeolite should be replaced every 2 months.	

If using a filter sock please make sure it's located in an area where the majority of sump return water runs directly over the sock. If using a reactor then adjust the water flow, ideally a suitable flow rate ensuring the media does NOT tumble.





