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Brightwell Aquatics ABAKALK450-15_7400

Brightwell Aquatics Kalk+2 User Manual

Advanced Kalkwasser Supplement for Reef and Marine Aquaria

1. INTRODUCTION

The Brightwell Aquatics Kalk+2 is an advanced kalkwasser supplement designed to provide essential calcium, strontium, and magnesium in the same ionic ratios found in aragonite. This formulation supports the growth and health of reef-building invertebrates such as corals, clams, and calcareous algae. It also helps maintain stable pH levels and temporary alkalinity in marine and reef aquariums without introducing conservative elements like chloride.

This manual provides comprehensive instructions for the safe and effective use of Kalk+2, ensuring optimal results for your aquatic environment.

2. SAFETY INFORMATION

Always handle chemical supplements with care. Keep out of reach of children and pets. Avoid direct contact with skin and eyes. In case of contact, rinse thoroughly with water. Do not ingest. Use in a well-ventilated area. Store in a cool, dry place away from direct sunlight.

3. PRODUCT OVERVIEW

Brightwell Aquatics Kalk+2 is a powdered supplement formulated by marine scientists. It is designed to enhance the calcification process in reef aquariums and maintain critical water parameters.

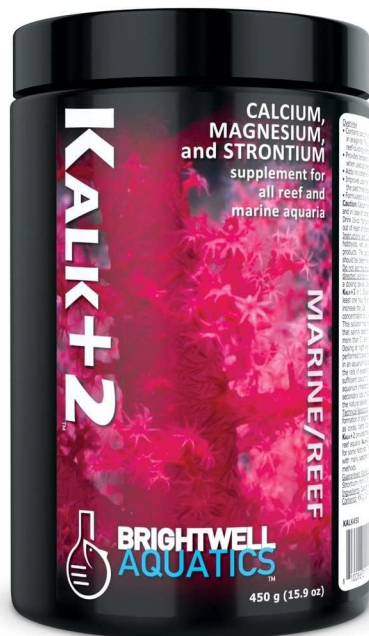


Image 3.1: Front view of the Brightwell Aquatics Kalk+2 container. This image shows the product packaging, highlighting its primary function as a calcium, magnesium, and strontium supplement for reef and marine aquaria.



Kalk+2

Calcium, Magnesium & Strontium
supplement for marine & reef aquariums

Useful to corals, clams, algae and other
reef-building invertebrates

Can temporarily provide alkalinity

Helps maintain pH levels

Adds no chloride to aquarium

Formulated and manufactured in the USA



Image 3.2: Infographic detailing the benefits of Kalk+2. This image illustrates key features such as its usefulness to corals, ability to provide alkalinity, pH maintenance, and the absence of chloride addition.

Key Features:

- Contains calcium, strontium, and magnesium in aragonite-like ionic ratios.
- Provides temporary alkalinity and helps maintain desired pH range (8.2-8.4).
- Adds no conservative elements like chloride to the aquarium.
- Supports calcification in reef-building invertebrates.
- Formulated by a marine scientist.

4. SETUP AND PREPARATION

Before using Kalk+2, ensure your aquarium water parameters are stable and within acceptable ranges for your marine inhabitants. It is recommended to test calcium, alkalinity, and magnesium levels prior to initial dosing.

Required Materials:

- Brightwell Aquatics Kalk+2 powder
- RO/DI (Reverse Osmosis/Deionized) freshwater
- Measuring spoon or scale for accurate dosing

- Container for mixing (non-metallic)
- Stirring utensil
- Aquarium water test kits (Calcium, Alkalinity, Magnesium, pH)

Mixing Instructions:

1. Begin with RO/DI freshwater. Do not use tap water directly as it may contain impurities.
2. Add 1 gram of Kalk+2 powder per 50 gallons (approximately 190 liters) of aquarium water to the RO/DI freshwater. This is a common starting point; adjust based on your aquarium's specific needs.
3. Stir the mixture thoroughly until the powder is dissolved. Some undissolved particles may remain; this is normal. Allow the solution to sit for a few hours, or overnight, to ensure full dissolution and precipitation of impurities.
4. Only the clear supernatant (the clear liquid above any settled sediment) should be used for dosing.

5. OPERATING INSTRUCTIONS (DOSING)

Kalk+2 is typically dosed slowly into the aquarium, often via an automatic top-off (ATO) system, to maintain stable pH and replenish calcium and alkalinity consumed by corals and other calcifying organisms.

Dosing Methods:

- **Manual Dosing:** Slowly drip the clear Kalk+2 solution into a high-flow area of your sump or display tank. Avoid adding large amounts at once, as this can cause rapid pH swings.
- **Automatic Top-Off (ATO) System:** The most common and recommended method. Prepare the Kalk+2 solution in your ATO reservoir. The ATO system will then slowly add the solution as needed to replenish evaporated water, providing a consistent and stable dose.
- **Kalkwasser Reactor/Stirrer:** For larger systems or higher demand, a kalkwasser reactor can be used to continuously mix and dispense saturated kalkwasser solution.

Dosage Guidelines:

- Start with a conservative dose and monitor your aquarium's calcium, alkalinity, and pH levels daily.
- The goal is to maintain pH within the desired range of 8.2 to 8.4.
- Adjust the amount of Kalk+2 powder used in your solution or the frequency/volume of dosing based on your aquarium's consumption and test results.
- Never exceed the recommended dosage or attempt to correct large parameter deficiencies rapidly. Gradual adjustments are key to stability.



Image 5.1: Brightwell Aquatics Kalk+2 container next to a kalkwasser reactor. This image demonstrates a common setup for automated dosing of kalkwasser in a reef aquarium system, showing the product in a practical application.

6. MAINTENANCE

Regular monitoring of water parameters is crucial when using Kalk+2. Consistent testing helps ensure the supplement is being used effectively and prevents potential issues.

Monitoring Schedule:

- **Daily:** Monitor pH levels, especially during the initial dosing phase.
- **Weekly:** Test calcium and alkalinity levels. Adjust dosing as needed based on consumption.
- **Bi-weekly/Monthly:** Test magnesium levels. While Kalk+2 contains magnesium, additional supplementation may be required depending on your system's demand.

Storage:

Store the Kalk+2 powder in its original sealed container in a cool, dry place, away from moisture and direct sunlight. Ensure the lid is tightly closed after each use to prevent moisture absorption, which can degrade the product.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
pH too high	Overdosing Kalk+2; too rapid addition.	Reduce Kalk+2 dosage or slow down drip rate. Ensure proper aeration in the aquarium.
pH too low	Insufficient Kalk+2 dosing; high CO2 levels.	Increase Kalk+2 dosage gradually. Improve surface agitation or add an air stone to increase gas exchange.
Calcium/Alkalinity not increasing	Insufficient dosing; high consumption by corals.	Increase Kalk+2 dosage gradually. Ensure the clear supernatant is being used, not sediment. Consider a kalkwasser reactor for consistent saturation.

Problem	Possible Cause	Solution
White precipitate in mixing container	Normal reaction; undissolved calcium hydroxide or magnesium precipitation.	This is normal. Only use the clear liquid (supernatant) for dosing. Do not add the sediment to the aquarium.

8. SPECIFICATIONS

- **Product Name:** Kalk+2 Advanced Kalkwasser Supplement
- **Brand:** Brightwell Aquatics
- **Model Number:** ABAKALK450-15_7400
- **Form:** Powder
- **Net Weight:** 450g / 15.9oz
- **Key Ingredients:** Calcium, Strontium, Magnesium
- **Dimensions:** 6.5 x 3.7 x 3.7 inches (Product Container)
- **Item Weight:** 1.15 pounds (Product Container)
- **Target Species:** Fish, Corals, and other marine invertebrates
- **Manufacturer:** Brightwell Aquatics

9. WARRANTY INFORMATION

Brightwell Aquatics products are manufactured to high standards. For specific warranty details or concerns regarding product quality, please refer to the manufacturer's official website or contact their customer support directly. Keep your purchase receipt as proof of purchase.

10. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding Brightwell Aquatics Kalk+2, please visit the official Brightwell Aquatics website or contact their customer service department. Contact information can typically be found on the product packaging or their official website.

Brightwell Aquatics Official Website: www.brightwellaquatics.com