

SICCE HyperKoral



Is your skimmer starving your corals?

- Traditional liquid coral foods can be removed from your tank by protein skimming. Why add something only to have it taken out by your filtration system?

- Corals actively consume amino acids and other nutrients from their environment. Thus, they benefit from supplementation in the reef aquarium.

How can you feed your corals without wasting most of the product in your skimmer? Simple, use **HyperKoral**.

HyperKoral is a new unique and revolutionary reef nourishment product, complete with essential amino acids, vitamins and minerals in the precise concentrations found on coral reefs.

Use **HyperKoral** as a daily food for your SPS corals. It offers a complete nutrition management system for your reef tank. If your reef system features LPS corals and/or non-zooxanthellate gorgonians that require large amounts of protein, simply combine **HyperKoral** with living or freeze-dried plankton to provide the extra protein these species demand.

Available from Authorized Dealers nationwide
Dealer Inquiries:
www.sicceus.com
www.sicce.com

Scientifically formulated from pure amino acids, **HyperKoral**

- Is readily assimilated by corals
- Will not stimulate cyanobacterial outbreaks
- Does not elevate nitrate levels
- Is not removed by protein skimming

HyperKoral is ideal for nano-reefs and smaller tanks without protein skimming. Larger tanks with skimmers retain effective organic waste removal. In either situation, corals fed with **HyperKoral** grow faster and look more vibrant. **HyperKoral** contains no preservatives. Our concentrated formulation delivers pure nutrition that mimics conditions found on natural coral reefs. Our proprietary packaging process ensures fresh, full potency product with a long shelf life.

Dosage: 1ml per 30 gallons every other day. 1 Tsp = 5ml.
For 50ml bottle with dropper, use 10 drops per 30 gallons.

Product: **HyperKoral**

Product Category: Additives and Supplements, Reef Aquarium

Unique Product Features: **HyperCoral** is formulated to promote maximum growth and color from corals, while remaining "invisible" to your skimmer. It's not skimmed out, and it doesn't interfere with skimming.

Packaging: 50ml with dropper, 100ml, 250ml, and 500ml glass bottles.

Product Rationale

Liquid coral foods commonly conform to two general formulas:

1. water + plankton + preservatives
2. water + hydrolyzed vegetable protein

These products suffer from two major drawbacks:

1. protein skimming removes them from the aquarium
2. they contain mixtures of both "L" and "D" amino acids

It's plain to see why the first drawback is a problem. A large proportion of the added product is quickly removed by the skimmer. That creates an extra burden for the skimmer and wastes the product.

The second drawback requires a little more explanation. Amino acids can exist in two forms that are mirror images of each other, like a pair of gloves. These forms are labeled "D" or "L" by chemists. Corals actively absorb L-amino acids, as do many other organisms, but relatively few organisms of any kind are able to utilize the D-amino acids. One group that can utilize the D-amino acids is the cyanobacteria. Adding a mixed bag of D- and L-amino acids not only feeds cyanobacterial growth, but also causes corals to lose color.

Why Corals Need Amino Acids

Corals absorb and make use of free amino acids from the water surrounding them. To protect themselves from ultraviolet radiation, marine organisms, including corals, have evolved "mycosporine-like amino acids" (MAAs). These compounds absorb damaging wavelengths of ultraviolet light. Corals can also obtain all of their nitrogen needs by absorbing amino acids and inorganic nitrogen compounds from the water. HyperCoral provides the amino acid building blocks that corals need, in a form that is readily absorbed, does not contribute to organic pollution and does not stimulate undesirable cyanobacterial growth.

